THE UNIVERSITY
OF ILLINOIS
LIBRARY

352.1
N4814m
1911pt.1
v.3

MINUTES

OF THE

Board of Estimate and Apportionment
# of The City of New York

FINANCIAL AND FRANCHISE MATTERS

FROM

JULY 1 TO JULY 31, 1911.

MEMBERS:

Mayor - - - - - - - WILLIAM J. GAYNOR
Comptroller - - - - - WILLIAM A. PRENDERGAST
President of the Board of Aldermen - JOHN PURROY MITCHEL
President of the Borough of Manhattan - GEORGE McANENY
President of the Borough of Brooklyn - - ALFRED E. STEERS
President of the Borough of The Bronx - - CYRUS C. MILLER
President of the Borough of Queens - - LAWRENCE GRESSER
President of the Borough of Richmond - GEORGE CROMWELL

JOSEPH HAAG - - Secretary

NEW YORK:
LECOUVER PRESS COMPANY,
No. 51 Vesey Street.

1912.

INDEX

January 1 to July 31, 1911.

A.

PAGE

- Accounts, Commissioner of—
  - Salaries, establishment of grades of:
    - Accountant ... 1133, 1405
    - Chief Accountant ... 1133, 1405
  - Salary schedules, Budget modification of:
    - No. 1304 ... 1955
    - No. 1305 ... 1955, 2816
    - No. 1306 ... 2816
  - Standard Testing Laboratory:
    - Establishment and organization of ... 1082, 1294, 2340
    - Expenses connected with:
      - Issue of special revenue bonds for ... 2340
      - Schedule for fund ... 2341
    - Salaries, establishment of positions and grades:
      - Clerk ... 1701, 1843
      - Coal Sampler ... 1701, 1843
      - Engineering Chemist ... 1701, 1843
      - Fuel Engineering Chemist ... 1701, 1843
      - Stenographer ... 1701, 1843
  - Transfers within appropriation for 1911 ... 1958, 2818
- Ackerson Company, T. B., purchase by City of water mains and appurtenances of ... 2810
- Aldermen, Board of, and City Clerk—
  - Assistant Sergeant-at-Arms:
    - Issue of special revenue bonds for equalizing salaries ... 2458, 3279
    - Schedule for fund ... 3280
  - Auctioneer's Process Server:
    - Issue of special revenue bonds for increase in salary ... 2458, 3279
    - Schedule for fund ... 3280
  - Contingent Account, City Clerk's office, 1910, issue of special revenue bonds for deficiency in ... 351
  - Deputy City Clerk, Brooklyn, issue of special revenue bonds for contingent expenses in 1910 of ... 2037, 2451
  - Deputy City Clerk, Richmond, issue of special revenue bonds for contingent expenses in 1910 of ... 1883, 2451
  - Fourth of July Celebration, issue of special revenue bonds for expenses connected with ... 1981, 2124
  - Salaries, establishment of positions and grades:
    - Assistant Sergeant-at-Arms ... 1378, 2467
    - Auctioneer's Process Server ... 2467
    - Bond Clerk ... 3238
    - Clerk ... 1168
    - Clerk in charge of Brooklyn office ... 1091, 3110
    - Clerk in Marriage License Bureau, Brooklyn ... 932
    - Clerk of Permits for Electric Signs ... 1168, 1597, 3111
    - Custodian, Borough of Manhattan ... 932
    - Custodian of Records, change in title from Messenger ... 1597, 2053
    - First Deputy City Clerk ... 4282
    - Librarian ... 2679, 3090
    - Ordinance Clerk ... 1168
    - Sergeant-at-Arms ... 1168
  - Salaries, increases in:
    - Issue of special revenue bonds for ... 1767, 1979
    - Schedule for fund ... 1981

248602

PAGE

- Stenographer to Special Committee of Board of Aldermen on municipal use of automobiles, issue of special revenue bonds for services of ... 931, 1124, 1767, 2058, 2155

Allied Boards of Trade and Taxpayers' Association of Brooklyn, communication from, relative to additional transportation facilities 1133, 1889, 1945, 2085

Allied Real Estate Interests, communication from, relative to additional transportation facilities ... 388, 1133, 2741

Alpha Republican Club of Brooklyn, communication from relative to continuance of band concrets in Winthrop Park ... 1929, 2054

Alsop, Reese D., communication from, relative to additional hospital facilities for tuberculosis patients ... 3153

American Ice Company—Ice Manufacturing Company—
- Consent to maintain and use a certain 16-inch pipe under East Seventieth street and Exterior street, Manhattan:
  - Joint application for the transfer of right of the American Ice Company to the Ice Manufacturing Company ... 2959
  - Grant of consent ... 2959
  - Mayor's approval ... 4260

American Museum of Natural History—
- Approval of specifications for:
  - Glass ... 1801
  - Lumber ... 1149
- Authorizations of corporate stock, furnishing and equipping, amendment of resolution ... 416
- Fireproof storage rooms, equipment, etc., appropriation for ... 2080
- History and growth of buildings and collection, folder relative to ... 2045

American Society for Prevention of Cruelty to Animals, communication from, relative to care of horses in Department of Street Cleaning ... 285, 625

American Society of Landscape Architects, communication from relative to the creation of a Commission on City Planning ... 388

Amsterdam Heat, Light and Power Company, authority to operate within the Thirtieth Ward of the Borough of Brooklyn ... 268, 278, 517, 4282

Annual manual of municipal statistics, report of Comptroller relative to publication of ... 1494

Aqueduct property, Assembly Bill No. 1573, in re regulating assessments on. 1759

Armory Board—
- Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
  - Eighth Artillery District, construction of retaining walls and foundation for new armory for ... 2835
  - Second Battalion, Naval Militia, New York, paving, grading and erecting iron railings around armory of ... 2835
- Corporate stock estimate for 1911-1915 ... 127-2364
- Hostlers in Second Battery, F. A. N. G. N. Y.:
  - Appropriations for compensation of ... 2445, 2760, 3472
  - Schedule for fund ... 2445, 3473
- Rent of offices, etc., issue of special revenue bonds for ... 2995, 3278
- Salaries, establishment of grades of:
- Schedules of salaries and wages, Budget, modification of:
  - Armory Board No. 1355 ... 2046
  - National Guard and Naval Militia:
    - New York County:
      - No. 2031 ... 1124
      - 2032 ... 1159
    - Kings County:
      - No. 2119 ... 1159, 2781, 2815
  - Clerk ... 568, 1565
  - Secretary ... 411, 2163
- Secretary, issue of special revenue bonds for increase in salary of.. 4414
- Transfers within—
  - Appropriation for 1906 ... 3247
  - Appropriation for 1907 ... 4362
  - Appropriation for 1908 ... 1915, 2607
  - Appropriation for 1909 ... 2284

PAGE

- Assembly Bill No. 148, granting vacations to persons in service of the State and several sub-divisions thereof 1906
- Assessments, Board of Revision of, transfer from appropriation for 1910 1487
- Assessors, Board of—
  - Establishment of positions and grades, request for, disapproved 1325
  - Salaries, establishment of positions and grades:
    - Clerk 2740, 3117
    - Stenographer 2740, 3117
  - Trtnsfer within—
    - Appropriation for 1910 125
    - Appropriation for 1911 2990
- Astor, John Jacob, Trustees for—
  - Maintenance, etc., of a spur track across Exterior street, near Ferncliff place, Borough of The Bronx:
    - Petition denied 516
- Astoria Heat, Light and Power Company—
  - Construction, etc., of pipe under and across East One Hundred and Thirty-second street, east of Locust avenue, The Bronx:
    - Application 2022
    - Execution of contract 4266
    - Grant of consent 2254
    - Mayor's approval 2656
- Atlantic avenue, Brooklyn, closing of, for a certain portion of one day, for athletic sports, resolution of Board of Aldermen relative to 2847, 3244
- Atlantic Telephone Company—
  - Franchise to construct, maintain, etc., appliances throughout the streets, etc., of the City for purpose of carrying on a telephone business:
    - Application denied 2671
- Automobile Club of America, communication from, relative to the elimination of grade crossing of the Long Island Railroad Company at Thompson avenue, Borough of Queens 994, 1127

B.

- Ballantine, Annie, et al, purchase by Public Service Commission of award made for damage to Parcel No. 16 in proceeding to acquire easements for elevated extension of subway in Westchester avenue, The Bronx 1767, 1900
- Balfe, Harry, settlement of claim for soap furnished the Department of Health 1154
- Bankers' and Brokers' Messenger Company. (See Gotham Electric Service Company.)
- Banks, Ursula M., petition for cancellation of judgments 1074
- Bannon, John S., claim for salary as Assistant Supervisor of Janitors, Department of Education 3126
- Barnes, Reon, communication from, relative to contract with Urban Water Company 1747, 2847, 3127, 3303, 3488
- Barry, Chas., claim for repairing Ambulance No. 6 of Bellevue and Allied Hospitals 1517
- Barta Publicity Column Company—
  - Installation and maintenance of certain vending machines on sidewalks throughout the City:
    - Application 1864
    - Denial of application 2036
- Bath Beach and Bensonhurst Board of Trade, communication from, relative to transportation facilities 2291
- Bath Beach Taxpayers' Association, communication from, relative to transportation facilities 1491
- Bedford Park Taxpayers' Association of The Bronx, communication from, relative to purchase of a school site 958
- Bergan, Frank T., claim for salary as Assistant Supervisor of Janitors, Department of Education 3126
- Bellevue and Allied Hospitals. (See Hospitals.)
- Blacksmiths, communication from Defender Union No. 1, American Brotherhood of Blacksmiths, relative to compensation of 1326

PAGE

Blacksmiths' Helpers, communication from United Blacksmiths' Helpers' Union, relative to compensation of ... 1326, 2679, 3115

Blum, Edward C., communication from, relative to hospital facilities for tuberculosis cases ... 2847

Board of Business Agents of New York, schedule of prevailing rate of wages submitted by ... 1091

Borrowing capacity of the City, statement showing anticipated margin on June 30, 1911 ... 85

Boylston Association, Edward, communication from, protesting appropriation for addition to Public School 78, Manhattan ... 1075

Bridge across Harlem River in neighborhood of Morris Heights, communication from Bronx West Side Association relative to ... 1701

Bridge over the Harlem River, between One Hundred and Twenty-fifth street and First avenue and One Hundred and Thirty-fourth street and Willis avenue, expenses of Commissioners of Estimate and Appraisal ... 4282

Bridge across tracks of New York and Putnam Railroad at 231st street, The Bronx, issue of special revenue bonds for erection of temporary foot bridge ... 1292, 1443

Bridges, Department of—

- Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
  - Manhattan Bridge:
    - Architects' service for completion of terminals ... 420
    - Compressed air line, installation of ... 1390
    - Fire protection system, installation of ... 1390
    - Manhattan Plaza, construction of westerly subway and Bayard street retaining wall ... 3137
  - Municipal office building, furnishing and installation of elevators in ... 1072, 2622, 3153
  - Pelham Bridge over Eastchester Bay in Pelham Bay Park, The Bronx, removal of old bridge ... 3036
  - Queensboro Bridge:
    - Electrical equipment of conduit tracks and track extension on Plaza ... 625, 714
    - Linseed oil, purchase of ... 576
  - Williamsburg Bridge:
    - Electric feeder cables, furnishing and installing ... 3170
    - Erection of one duplex, two-stage motor driven air compressor 3136
    - Strengthening of end spans ... 625, 724, 772, 953
- Automobiles, issue of special revenue bonds for purchase of two.... 3121
- Bridge at foot of Ocean avenue, Sheepshead Bay, Brooklyn, transfer of jurisdiction from President of Brooklyn to Department of Bridges ... 1769, 1981, 3358
- Bridge Mechanics and Riveters, issue of special revenue bonds for increase in compensation of ... 125, 383
- Corporate Stock authorizations and amendments:
  - Awards, interest and costs on property acquired for bridge purposes 3355
  - Borden Avenue Bridge, over Dutch Kills Creek, Borough of Queens, awards and interest for lands taken for ... 1069
  - Bridge over Bronx River at Ludlow avenue, construction of.... 3357
  - Bridge over Bronx River at One Hundred and Seventy-fourth street ... 3358
  - Bridge over Harlem River at Morris Heights, borings... 3358
  - Comfort Station at Queensboro Bridge Plaza, Borough of Queens, construction of ... 3322
  - Engineering and Construction Force:
    - Contingent expenses ... 3356
    - Salaries and wages ... 3355
  - Fresh Kills Bridge, Borough of Richmond, filling in southerly approach ... 3357
  - Madison Avenue Bridge, construction of administration building at Manhattan approach ... 3356
  - Manhattan Bridge:

PAGE

- Brooklyn Approach and Plaza, awards and interest for land taken for 2342, 2601
- Brooklyn terminal, retaining walls, sidewalks, railways, stairways, etc. 417, 782
- Completion of terminals, Architects' services for 417
- Improving streets and property under bridge and miscellaneous improvements 3356
- Manhattan approach, awards and interest for lands taken for. 1882, 2130
- Manhattan Termial:
  - Retaining walls, sidewalks, buildings, stairways, change of grade, etc. 417
  - Retaining walls, sidewalks, walks, etc., arch and colonade. 417
  - Terminal building and elevated structure connecting building with bridge tracks 417, 782
- Metropolitan avenue bridge over English Kills, Borough of Queens 3359
- New York and Brooklyn Bridge:
  - Expenses in connection with acquisition of title to certain lands for extension of Manhattan terminal 1375, 2285, 2600, 2759
  - Miscellaneous improvements 3356
- Ocean avenue bridge over Sheepshead Bay, Brooklyn, borings 3358
- Pelham Bridge over Eastchester Bay in Pelham Bay Park, removal of old bridge and restoration of site 1293, 1818
- Queensboro Bridge, awards, interest and costs and expenses for lands taken in blocks bounded by Avenue A, First avenue, Fifty-ninth and Sixtieth streets, Manhattan 1130, 1375, 2131, 4280
- Third Avenue Bridge over Harlem River, electrical equipment of. 3357
- Williamsburg Bridge, alterations in Manhattan subway station and additional stairway 3357
- Willis Avenue Bridge over Harlem River, electrical equipment of 3358

Corporate Stock Budget 3355

Henry Hudson Memorial Bridge, communication from John Ross Delafield relative to construction of 1293

Municipal Building, furnishing and installing elevators in, approval of contract, etc. 1072, 2622

Municipal Garage Fund, issue of special revenue bonds for 931, 1121

New York and Brooklyn Bridge:
- Maintenance during 1911:
  - Appropriations from revenues 423, 1365, 2113
  - Issue of special revenue bonds 4431
  - Improvements at Manhattan terminal, appropriation for 2765, 3305, 4332, 4348
- Schedule of salaries and wages, approval of 423, 2122

Salaries—establishment of positions and grades:
- Assistant Engineer 187, 386
- Assistant Foreman Carpenter 386, 664
- Assistant Foreman Laborer 386, 664
- Automobile Engineman 1091
- Clerk 1071, 1293, 1586, 1638
- Fireman 386, 664
- Foreman Carpenter 1071, 1638
- Foreman Lineman 386, 664
- Foreman Riveter 1071, 1638
- Rigger 386, 664
- Rodman 386, 1326
- Stone Cutter 386, 664
- Toolman 386, 664
- Typewriter Copyist 386, 664

Salaries, request for establishment of grades and positions filed in 1910 1411

Schedules of salaries and wages, Budget, modification of
- No. 70 2292, 2825
- 78 72
- 79 1718
- 80 1960, 2352
- 91 3188
- 92 2352

PAGE

- 103 ... 2825
- 105 ... 1718, 2352
- 107 ... 72
- 113 ... 2291
- 114 ... 1718
- 115 ... 1718, 2352
- 125 ... 1385, 2291, 3188, 3269
- 126 ... 570, 1718, 2825, 3188
- 127 ... 570, 1718, 2352
- 138 ... 2825

- Schedules of salaries and wages, non-budgetary, approval of:
  - Construction Division ... 459, 933, 1347, 2294, 3162
  - New York and Brooklyn Bridge Division ... 1114, 2770
  - Williamsburg Bridge Division ... 1140, 1711, 2112, 3190
- Transfers within appropriation for 1911 ... 2294, 2355, 2827, 2987, 3190
- Williamsburg Bridge, settlement of claim of Reis & O'Donovan for additional work on ... 1156
- Williamsburg Bridge, issue of special revenue bonds for maintenance of during 1911 ... 4431

Bridge over Gowanas Canal at Hamilton avenue, Brooklyn, appropriation for awards for damages by change of grade of streets ... 3434

Bridge over Harlem River and approaches thereto, between One Hundred and Twenty-fifth street and First avenue, and One Hundred and Thirty-fourth street and Willis avenue, expenses of Commissioners of Estimate and Appraisal ... 4282

Broadway and Seventh Avenue Railroad Company—
- Forfeiture of certain abandoned franchises and tracks in streets of City:
  - Communication from Corporation Counsel ... 2244
  - Report of Franchise Bureau ... 2657
  - Settlement of Action ... 2664

Broadway Board of Trade, Brooklyn—
- Communication from relative to extension and improvement of the distribution system of water supply in Broadway, Eastern District and Evergreen District of Brooklyn ... 2085

Broadway Subway, Brooklyn, communications and petitions relative to construction of ... 286, 388, 714

Borough of The Bronx, One Hundred and Ninety-fourth Street—Petition of residents relative to transportation facilities ... 2464

Bronx Court House—
- Completion of, appropriation for ... 1768, 3314
- Electric equipment, installation of ... 946

Bronx, President of the Borough of The (see "The Bronx")—

Bronx River Parkway—
- Preparation of maps and researches of ownership of property to be acquired, appropriation for ... 2711
- Reports relative to work of Commission ... 2711, 2724

Bronx Traction Company—
- Construction of additional track on Fort Schuyler road, from Westchester Square to the Eastern boulevard:
  - Form of contract ... 2266
- Extension on Eastern boulevard and the shore road to Fort Schuyler road, to northerly boundary line of the City:
  - Denial of petition, report of Bureau of Franchises, relative to 2266, 2276, 2931
  - Opposition of property owners, communication relative to ... 4260
- Operation, etc., of railway on White Plains road, from Morris Park avenue to Gun Hill road, The Bronx:
  - Execution of contract ... 501
  - Consents of abutting property owners ... 914, 1063

Bronx Transit Association, communication from, relative to transportation facilities ... 69, 140, 285, 569, 753, 1888

Bronx West Side Association—Communication from, relative to bridge across the Harlem River in neighborhood of Morris Heights ... 1701

Brooklyn Board of Real Estate Brokers, communication from, relative to additional rapid transit railways ... 1133

PAGE

Brooklyn Central Labor Union, communication from, relative to incorporation of clause for protection of workingmen in contracts for construction and operation of new subways 4284
Brooklyn City Railroad Company and Brooklyn Heights Railroad Company—
    Agreement with Nassau Electric Railroad Company to use certain tracks on Flatbush avenue, Brooklyn 846, 2251
Brooklyn Disciplinary Training School for Boys—
    Cottage system, appropriation for establishment of 1701
    Improvements in school, presentment of Grand Jury, Kings County, etc., relative to 2045
    Salaries—establishment of positions and grades:
        Investigator 932, 1567, 2678, 3113
        Stenographer 932, 1567
    Salary schedules, Budget, modification of 2170, 2359
    Site for new building, appropriation for acquisition of 3425
    Transfer within appropriation for 1910 1281
Brooklyn Heights Railroad Company—Agreement with relative to repaving Flatbush avenue 1909
Brooklyn Institute of Arts and Sciences—
    Botanical Garden and Arboretum, establishment of:
        Improvements in, appropriation for 3402, 3403, 4340
        Preliminary expenses, appropriation for 1070, 1362
        Transfer of lands by Park Department 68, 413
    Sewer connection for Sections A and F, approval of plans, etc 809
Brooklyn League, communication from, relative to—
    Increasing appropriations for Department of Education for new school buildings, etc., and for maintenance of public schools during 1912 3052
    Isolation of public buildings 117
    Transportation facilities, matter of 1294, 2741, 3469, 4284
Brooklyn-Manhattan Rapid Transit Railway (see Rapid Transit Railways)—
Brooklyn, petition of residents of, in re transit facilities 1624
Brooklyn, President of the Borough of—
    Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
        Central Library—Foundation work on site 2056
        Dredging for Eighth Ward Market 808
        Relief sewers, Classon and Myrtle avenues 978, 1073, 1135, 1296, 1419, 1601
    Bridge across Sheepshead Bay at Ocean avenue:
        Construction of, communication from Local Board, Flatbush District, relative to 387
        Transfer of jurisdiction to Bridge Department 1769, 1981
    Brooklyn Heights Railroad Company—Agreement with, relative to repaving Flatbush avenue 1909
    Carpenter in Bureau of Highways, increase in compensation of 1701, 2309
    Central Library Building, appropriation for preparation of preliminary plans, etc. 3244, 3318
    Coroners' Offices, appropriation for furnishing and equipping 1699
    Commissioner of Records, issue of special revenue bonds for installation of steel map and filing cases in office of 1943, 3130
    Corporate stock authorizations:
        Central Library Building, construction of 3244, 3318, 4336
        Municipal Building, acquisition of land and construction 3317, 4337
        Public comfort stations (2), construction of, including equipment.. 3317
        Repaving 459, 1047, 3318
        Topographical work 173, 3317
    Corporate Stock Budget 3317
    Corporate stock, estimate for 1911-1915 68
    County Court, Kings County, appropriation for furniture for new Parts 3 and 4 ..... 1070, 1506
    Eighth Ward Public Market:
        Appropriation for construction of 3318, 4337
            carrying on major part of work 1178
            carrying on major part of work filed 1178

PAGE

  - Headstones over graves of deceased soldiers and sailors, issue of special revenue bonds for 1118
  - Municipal Bath House at Coney Island:
    - Change in location of 183
    - Fees for use of 2800
    - Free use by the public 2600, 2697, 2800
    - Life Saver, establishment of position of 3069
    - Rules governing operation of bath 2800, 3070
    - Salaries:
      - Issue of special revenue bonds for 2632, 3067
      - Schedule for fund 3070
    - Statement of cost of operation and maintenance 2800
  - Relief sewers in Carlton and Classon avenues, Gold street, Myrtle and Park avenues, corporate stock authorization for construction of, rescinded 1608
  - Repaving certain streets, authority to charge cost to Repaving Fund.. 416
  - Repaving contracts, exemption of, from provisions of resolution of June 3, 1910 1423
  - Salaries—Establishment of positions and grades:
    - Assistant Engineer 187
    - Asphalt Worker 1071, 1637
    - Automobile Engineman 749, 1176, 1326
    - Confidential Stenographer to Borough President 1851, 2447
    - Consulting Engineer 1851, 2447
    - Inspector of Regulating, Grading and Paving 67, 1087, 2679, 3096, 3152
    - Inspector of Sewer Construction 1568, 3115
    - Life Saver 3069
    - Secretary to Commissioner of Public Works 1851, 2447
    - Sewer Cleaner 568, 1176
    - Stonecutter 1071, 1637
    - Typewriting Copyist 386, 1935
  - Schedules of salaries and wages, Budget, modification of:
    - No. 1765 307, 2176, 3160
    - No. 1767 312, 4385
    - No. 1769 2439, 3159
    - No. 1770 543, 3027
    - No. 1771 2176
    - No. 1772 1107, 1135, 1986
    - No. 1791 1299, 2176
    - No. 1792 185
    - No. 1804 (budgetary part allowance) 310, 1039, 2176, 2586, 3160, 4385
    - No. 1805 2176
    - No. 1806 3026
    - No. 1819 1327, 2321
    - No. 1820 1327, 2176, 4385
  - Schedules of salaries and wages, non-budgetary, approval of:
    - Street Improvement Fund 1137
    - Topographical Bureau 174, 435, 4349
  - Sewer at foot of South Sixth street, issue of special revenue bonds for construction of an outlet to 1399
  - Sewer on Neptune avenue, award of contract for construction of.... 1597
  - Topographical Bureau:
    - Appropriation for expenses of 172, 3317
    - Schedule of salaries and wages, approval of 174, 435, 4349
  - Transfers within:
    - Appropriation for 1910 2283
    - Appropriation for 1911 1098, 1327, 2178, 4279
- Brooklyn, Queens County and Suburban Railway Company—
  - Extensions to existing system on Utica avenue, from Church avenue to Avenue N, Brooklyn:
    - Validity of franchise to maintain railway 229
- Brooklyn Rapid Transit Railway Company—
  - Proposition relative to construction and operation of new subways, etc. (see Rapid Transit Railway).

PAGE

- "Unified system," Editorial of New York Commercial relative to 1888
- Brooklyn Transit Conference, communication from, relative to transportation facilities 1072, 2046, 3469
- Bronx West Side Association, communication from, relative to construction of bridge across the Harlem River in neighborhood of Morris Heights 1701
- Brown, Lewis, communication from, relative to transportation facilities 1889
- Brown, M. B., Printing and Binding Company, payment of bill for printing report of Special Committee on Board on Transit Proposals 4437
- Budgetary Publicity Committee, continuance of 1072
- Budget Exhibits at International Congress and Exposition, to be held in Chicago 1807
- Budget for 1911, consideration of resolution governing appropriations in 338, 539, 592, 724
- Budget for 1912—
  - Applications for establishment of positions and grades to be submitted with departmental estimate for 1912 3115
  - Hearings on estimates 1981, 2054, 2154, 2343, 2600, 2697
  - Salary increases to be submitted with departmental estimates 2742
  - Submission of departmental estimates 1981, 2054, 2154, 2343, 2600, 2697
- Budget salary schedules, rules governing modification of 1826, 1892, 1951
- Building Trades Council of New York, communication from, relative to—
  - Incorporation of clause in subway contracts for protection of workmen engaged on construction and operation 4284
  - Prevailing rate of wages for mechanics, etc 125, 1091
- Building Trades of Brooklyn, communication from, relative to compensation of Carpenter in Bureau of Highways, Brooklyn 1701, 2309
- Butter, standard specifications for purchase of 68, 129
- Byrne, Mary E., communication from, relative to establishment of Board of Inebriety 2067

C

- Canal place, The Bronx, corporate stock for extending 1167
- Canarsie Board of Trade, communication from, relative to transit facilities 2046
- Candee, Smith & Howland Co., and others, lienors of New York Contracting & Supply Co., contractors for erection of boiler house on Blackwells Island, petition for settlement of claim 972
- Carey & Co., H. T., communication from, relative to hospital facilities for tuberculosis patients 2764
- Carnegie Libraries (see Libraries)—
- Carriage, Wagon and Automobile Workers' Union of New York, communication from, relative to prevailing rate of wages for Wheelwrights 1414
- Carroll, Charles T., communication from, offering for sale property Nos. 239-241 Greene street, Brooklyn, for hospital purposes 4414
- Carter & Company, Robert, claim for laying and hauling water mains in Brooklyn during the years 1908 and 1909 3015
- Census of The City of New York, appointment of committee to obtain detailed figures from Federal authorities 1347
- Central Federated Union of Greater New York and Vicinity—
  - Communications from, relative to:
    - Delay in payment of wages of certain City employees 1702, 1905
    - Pier at foot of Fiftieth street and East River, Manhattan 2132
    - Ventilation of subways and observance of law in regard to employment of labor 3020, 3142
    - Wood block pavement, use of, on streets of City 2741
- Central Library Building, Brooklyn, appropriation for construction 3244, 3318, 4336
- Central Labor Union, communication from, relative to an appropriation in Budget for 1912, to permit granting a two weeks' vacation to per diem employees 4283
- Central Park Restoration Committee, communication from, relative to appropriation for improving Central Park 2331
- Central Park (see Department of Parks, Boroughs of Manhattan and Richment)—
- Century Holding Company, communication from, relative to transportation facilities 2291

- Har Moriah Hospital, request for appropriation.................... 3235
- Misericordia Hospital, request for appropriation for maintenance.... 1377
- Transfers within appropriation for 1910....................657, 703, 1755, 2747

Charter of The City of New York, amendments to, affecting functions of the Board of Estimate and Apportionment 1845, 1905

Cheese, standard specifications for purchase of 1082

Chief, The, communication from, relative to increasing salaries of Patrolmen 1091

Children's Museum Building in Bedford Park, Brooklyn, appropriation for construction and equipment of.................................... 3403

Citizens' Association of Bay Ridge and Fort Hamilton, Brooklyn—
- Communication from, relative to additional rapid transit railways.... 993
- Communication from, relative to completion of Shore Road parkway, Brooklyn 140

City Chamberlain, modification of Budget salary schedule................ 3052

City Club of New York—
- Communication from, relative to additional rapid transit facilities and construction by assessment................................ 388
- Report of Rapid Transit Committee of, relative to additional transit facilities, etc. 2995

City Island Board of Trade, communication from, protesting any further extension of time to City Island Railroad Company and Pelham Park Railroad Company to change motive power 1065

City Island Railroad Company—
- Extension of time to complete change of motive power on street surface railways in The Bronx:
  - Acceptance of agreement by Company 19

City Island Railroad Company and Pelham Bay Park Railroad Company—
- Change of motive power of street surface railways in The Bronx:
  - Commencement of work by Railroad Company................1216, 1473, 2244
  - Removal of tracks within limits of Pelham Bay Park............ 61, 219, 695, 1065, 1216, 2666
  - Protest of City Island Board of Trade, etc.................1065, 1216, 2666
  - Revocation of consent 2666

City of New York vs. the United States Government, prosecution of claim for expenditures made during the Civil War................... 2994

City Planning, communication from American Society of Landscape Architects, relative to creation of a Commission on 388

City Playground League of New York, communication from, relative to regrading salaries for playground work 570, 1077

City Record, Board of—
- Brown Printing and Binding Company, payment of bill for printing report of Conference Committee on Transit Proposals............ 4437

PAGE

Chamber of Commerce, Borough of Queens, communication from, relative to transportation facilities 4398

Chamber of Commerce, State of New York—
- Annual manual of municipal statistics, or official year book, publication of 1494
- Formulation of plan for future operation of trains of New York Central and Hudson River Railroad Company on west side of The City of New York 1879
- Pierhead lines, report of special committee on 570
- Rapid transit, report of special committee on 140
- Statement of Chairman of Merchants' Association Committee in re report of Conference Committee of the Board on Extensions, etc., to rapid transit systems 2644, 2745

Change of Grade Damage Commission for the Twenty-third and Twenty-Fourth Wards—
- Appropriation to pay awards, interest and counsel fees 2759
- Expenses for 1910 (reduction in amount authorized)................. 3431
- Expenses for 1912, appropriation for................................ 3430
- Payment of fees of expert witnesses employed by Corporation Counsel, appropriation for payment of.................................... 1769, 3430

Charitable institutions—

PAGE

- Salaries, establishment of positions and grades:
    - Clerk 2633, 3074
    - Inspector with technical knowledge of printing 2191, 2805
    - Storekeeper 2633, 3074
- Salaries, request for establishment of grades of positions filed in 1910 1407
- Schedules of salaries, Budget, modification of 969, 4296
- Transfers within:
    - Appropriation for 1910 .... 1373, 1752
    - Appropriation for 1911 2750

City Revenues, new sources of, appointment of committee on 285, 568

Civic associations of the Borough of Queens, communication from, relative to additional rapid transit railways 527

Claflin, H. B., & Co.—

- Maintenance of pipe under and across Worth street, near West Broadway, Manhattan:
    - Execution of contract 1472
    - Grant of consent 687
    - Mayor's approval 903

Claflin, John, communication from, relative to transportation facilities, etc. 3469

Claremont Heights Property Owners' Association, communications from, urging an increase in salaries of Firemen in the Fire Department.... 4283

Claremont Heights section of The Bronx, request for appropriation for new school for 68

Clason's Point road, The Bronx, opening and extending, from Westchester avenue to the East River, appropriation for expenses of 4280

Clausen, H., & Son Brewing Company—

- Compensation for maintenance of unauthorized pipe under East Forty-seventh street, Manhattan:
    - Action to recover 503

Coal, standard specifications for purchase of 68, 129, 3017

Cohen, Joseph, claim of Metropolitan Tobacco Company for expenses connected with extradition of 1377

College of The City of New York—

- Action on balance in corporate stock account for new site and building deferred by Corporate Stock Budget Committee, pending completion of drainage tunnel 4309
- Dwyer, Thomas, claim for labor and materials furnished the College of The City of New York 3122
- Fireproof partitions and doors in the corridor, issue of special revenue bonds for installation of 1377, 1747, 1777
- Gymnasium building, approval of plans, etc., for alterations for new showers in 1802
- Mechanic Arts Building, approval of plans, etc., for an ash lift in the boiler room of the 1918
- Salaries, request for establishment of grades of positions filed in 1910 1411
- Salaries, establishment of positions and grades:
    - Cleaner 749, 1020
    - Clerk 526, 1326
- Schedules of salaries, Budget, modification of:
    - No. 1280 (disapproved) 1836
    - No. 1281 .... 600, 942
- Schedulizing salaries of teaching force, for purpose of auditing payrolls by Finance Department 667
- Transfer within appropriation for 1911 3130

Collier, Robert J.—

- Construction, etc., of bridge across West Thirteenth street, Manhattan:
    - Application 504
    - Execution of contract 1189
    - Extension of time to complete work 2260
    - Grant of consent 697
    - Mayor's approval 903, 2656
- Construction, etc., of steam pipes under West Thirteenth street, Manhattan:
    - Application 1191
    - Execution of agreement 1872

PAGE

    - Grant of consent 1482
    - Mayor's approval 1677

- Collins, D. W.—
  - Temporary permit to lay spur track across Adams street, 100 feet west of Morris avenue, The Bronx:
    - Grant of consent 2745
- Colonial Records, preservation of 1488, 4304
- Comfort stations in various boroughs, request for appropriation for additional 68, 1417
- Commissions and Commissioners—
  - Authorizations and rescindments of corporate stock in corporate stock Budget 3429
- Concerts in parks, armories, etc., appropriation for furnishing additional 1883, 2453
- Coney Island and Brooklyn Railroad Company—
  - Relocation of tracks on Coney Island avenue, Brooklyn:
    - Report of committee (majority) 565
    - Report of President of Brooklyn 739
    - Rescission of previous action by Board 911
- Coney Island Park, report of Corporate Stock Budget Committee relative to acquisition of site for 3305
- Conron Brothers Company—
  - Construction, etc., of conduits under West One Hundred and Twenty-ninth, One Hundred and Thirtieth, One Hundred and Thirty-second and One Hundred and Thirty-fourth streets, Manhattan:
    - Execution of contract 1053
    - Grant of consent 193
    - Mayor's approval 484
    - Rescission of grant by Board of Aldermen 199
- Consumers' Brewing Company of New York, Limited—
  - Construction, etc., of iron pipe under and across East Fifty-fourth street, Manhattan:
    - Acceptance of consent by Company 18
- Consolidated Telegraph and Electrical Subway Company, communication from, relative to grant of franchise to Riverside Light and Power Company 2251
- Contracts chargeable to corporate stock authorizations—
  - Plans, specifications and estimates of cost to be first submitted to Comptroller 85, 1072
  - Extent of Comptroller's responsibility 724, 772, 955, 1029, 1087, 1353
  - Plans, specifications, etc., to be passed upon by Comptroller during months of August and September 3153, 3303
  - Plans, specifications and estimates of cost chargeable to corporate stock authorizations adopted July 17, 1911, to be submitted to Board for approval 3303
- Cornell Dam Proceeding, corporate stock for payment of awards, interest, etc. 1817
- Coroners—
  - Borough of Brooklyn:
    - Furnishing and equipping offices, issue of special revenue bonds for 1699, 2326
    - Salaries, request for establishment of grades of positions filed in 1910 1407
  - Borough of Manhattan:
    - Clerk, request for establishment of grade of position 2458, 3116
    - New offices in Building 70-74 Lafayette street, appropriation for furniture, etc. 525, 768, 1944, 2329
    - Salaries, request for establishment of grades of positions filed in 1910 1410, 1411
  - Borough of Queens:
    - Salaries, request for establishment of grades of positions filed in 1910 1410
  - Borough of Richmond—
    - Clerk, establishment of grade of 2286, 3116
    - Salaries, request for establishment of grades of positions filed in 1910 1411

PAGE

Borough of The Bronx:
  Transfer within appropriation for 1910 2282
Corporate Stock Budget for 1911-1912—
  Report of Corporate Stock Budget Committee, submitting Budget for 1911-1912 .... 3244, 3304
  Recommendations concerning the following improvements:
    Manhattan Terminal of New York and Brooklyn Bridge in connection with new Municipal Building 3305
    Park at Coney Island 3305, 3306
    Park at Rockaway Beach 3305, 3306
    Site for New York County Court House 3305, 3306
  Authorizations of corporate stock and rescindments affecting the following departments, etc.:
    Beluevue and Allied Hospitals 3418
    Borough Presidents:
      Manhattan 3306
      Brooklyn 3317
      Queens 3318
      Richmond 3322
      The Bronx 3311
    Bridges, Department of 3355
    Brooklyn Disciplinary Training School for Boys 3425
    Carnegie Library sites 3423
    Commissioner of Records, New York County 3432
    Commissions and Commissioners 3429
    Correction, Department of 3423
    County Clerk, Queens County 3433
    Docks and Ferries, Department of 3349
    Education, Department of 3326
    Finance and miscellaneous accounts 3433
    Fire Department 3359
    Health Department 3414
    Metropolitan Sewerage Commission 3432
    Normal College of The City of New York 3424
    Park Department of:
      Boroughs of Brooklyn and Queens 3396
      Boroughs of Manhattan and Richmond 3388
      Borough of The Bronx 3404
    Police Department 3421
    Public Charities, Department of 3376
    Street Cleaning, Department of 3426
    Surrogate of Queens County 3433
    Water Supply, Gas and Electricity, Department of 3434
    Effect on City's borrowing capacity 3304
  Summary 3304

  Salaries of employees paid from non-budgetary accounts, rates to be fixed annually at time of adoption of Corporate Stock Budget .. 3262, 4287
Corporation Counsel (see Law Department).

Correction, Department of—
  Compensation of employees in Workhouse engaged on Finger-print system, matter of increasing 1016, 1157
  Corporate Stock Budget 3423
  Fireproofing Workhouse on Blackwell's Island, authorization of corporate stock for 3423
  Harts Island—
    Acquisition of land on southerly end of (Hunter Estate) 2078
    Reformatory, appropriation for erection of 3244, 3252, 3423, 4340
  House of Detention:
    Appropriation for repairs to 712, 2339
    Appropriation for site and erection of building 2339
  Keepers at Penitentiary, Blackwell's Island:
    Issue of special revenue bonds for salaries of four additional 2995, 3285
    Schedule for fund 3286
  Reformatory on Blackwells Island, appropriation for 3252

PAGE

- Salaries, establishment of positions and grades:
  - Automobile Engineman 1091
  - Clerk 2037, 2804
  - Cook 749, 1176, 1293, 3078
  - Deputy Commissioner 1293, 3078
  - Finger-Print Expert 1133, 2806
  - General Bookkeeper and Auditor 1293, 3078
  - Inspector of Repairs and Supplies 2037, 2804
  - Mate 1071, 1293, 3078
  - Secretary of the Department 1293, 3078
- Salaries, request for establishment of various grades of positions, filed in 1910 1407, 1411
- Schedules of salaries and wages, Budget, modification of:
  - No. 249 4291
  - No. 250 4391
  - No. 273 168, 2778, 4390
  - No. 276 1005, 4390
  - No. 279 2778, 4390
  - No. 282 4390
  - No. 285 4390
  - Schedule of salaries for Revenue Bond Force 1823
  - Transfer within—
    - Appropriation for 1908 1592
    - Appropriation for 1910 595
    - Appropriation for 1911 4391, 4393
- Women's Jail, Place of Detention, and Magistrates' Court, appropriation for acquisition of site and erection of building for 2343, 3244, 3423, 4340

Coughlan & Tuttle, representing owners of property in South Brooklyn, communication from, relative to transit facilities 3142

County Clerks—
- Kings County:
  - Clerk and Copyists, appropriation for salaries of 712, 1821
  - Clerk, establishment of grade of position 1099
  - Election canvass, appropriation for payment of services relating to 712, 1821
  - Laborers, appropriation for increase in wages of 163
  - Naturalization Bureau, appropriation for equipment of 712, 1821
- New York County:
  - Confidential Stenographer:
    - Issue of special revenue bonds for salary of 1883, 2052, 2152
    - Schedule for fund 2153
  - Contingencies, 1910, appropriation for deficit in 349
  - Files of early editions of newspapers published in City and County of New York, purchase by Commissioner of Records of New York County, from New York Press Club 2458, 3493
  - Moving, etc., appropriation for expenses of 349
  - Salaries, establishment of positions and grades:
    - Assistant Superintendent of Indexing and Recording 2458, 3105
    - Bookbinder 2458, 3105
    - Docket Clerk 2458, 3105
    - Docket Comparing Clerk 2458, 3105
    - Index Clerk 2458, 3105
    - Laborer 2458, 3105
    - Messenger 67, 372
    - Notarial Clerk 67, 372
    - Searcher 2458, 3105
    - Superintendent of Indexing and Recording 2458, 3105
  - Schedule of salaries, Budget, modification of:
    - No. 1983 393, 1629
  - Steel filing cases:
    - Appropriation for purchase of 3432
    - Approval of plans and appropriation for installation in County Court House, etc. 127, 1126, 1701, 2764, 2765, 4307, 4432
    - Hall of Records, remission of overtime on contract for installing in 1293, 2690

- Queens County:
  - Filing cases, appropriation for 385, 929, 3433
  - Fireproof building for storing records, appropriation for erection of 1378, 3433
  - Libers, appropriation for purchase of 1145
  - Recopying and transcribing books of public record, appropriation for 1596, 1920, 2682, 3260
  - Transfer within appropriation for 1910 1485, 1759
  - Transfer within appropriation for 1910 (disapproved) 790
  - Transfer within appropriation for 1911 1191
- Richmond County:
  - Additions and alterations to office building, approval of plans, etc., for 3174
  - Architect's services in connection with addition to County Clerk's office, authority to pay fees for 713
  - Hooker, William H., and Frank E. Roe, petition for fixing of salaries as Clerks 1511
  - Temporary Copyists:
    - Issue of special revenue bonds for employment of 1377, 3009
    - Schedule for fund 3010

County offices, issue of special revenue bonds for rent of premises leased for 2995, 3278

Courts—
- City Court of New York:
  - Salaries, establishment of positions and grades:
    - Attendant 932, 3116
    - Clerk 1407
    - Interpreter 1091, 1701, 2459, 3116
    - Stenographer and Typewriter 2286, 3095
- City Magistrates' Courts:
  - First Division:
    - Furniture and equipment for additional court rooms, offices and Justices' Chambers, appropriation for 1883, 2604
    - Library, appropriation for establishment of 569, 1040
    - Salaries, request for establishment of grades of positions, filed in 1910 1408
    - Supplies for court rooms and prisons, appropriation for 1883, 2604
    - Temporary City Magistrate, appropriation for salary of 159, 2037, 2791
    - Transfer within appropriation for 1910 1280
    - Women's Jail, Place of Detention and Magistrates' Court, appropriation for acquisition of site and erection of building for 2343, 3244, 3423, 4340
  - Second Division:
    - City Magistrate, establishment of grade of position 932, 3092
    - Court rooms and offices, issue of special revenue bonds for furniture and equipment 2343, 3176
    - Furniture and equipment of court rooms for Fourth District Court, Borough of Queens, issue of special revenue bonds for 1488, 1903
    - Law Library, issue of special revenue bonds for purchase of 2343, 3176
    - Salaries, request for establishment of grades of positions, filed in 1910 1411
    - Stenographer, establishment of grade of position 2633, 3116
- County Courts:
  - Kings County:
    - New Parts 3 and 4:
      - Court rooms in building 321-327 Washington street, appropriation for equipping 1146
      - Furniture, etc., appropriation for 1070, 1506
    - Stenographers:
      - Appropriation for salaries 1132, 1508
      - Schedule for fund 1509
  - Queens County:
    - Salaries, establishment of grades of positions:
      - Copyist 2084
      - Messenger 1944, 2306

PAGE
Richmond County:
County Court and Surrogate's Court:
Salaries, establishment of positions and grades:
Confidential Clerk 2678, 3091
Stenographer and Typewriter 2458
Salaries, request for establishment of grade of Clerk, filed in 1910 1408, 1413
Transfers within appropriation for 1910 390, 2990
General Sessions, Court of:
Deputy Clerk, establishment of grade of position 2678, 3112
Schedule of salaries, Budget, modification of 547, 1305, 1748, 4326
Municipal District Courts:
Court houses, communication from Chairman of Committee on 993
Second District, Manhattan:
Elevator in court house, approval of specifications, etc., for 822
Third District, Queens:
Court rooms, appropriation for furniture, etc., for 525, 948
Interpreters, matter of increasing salaries of 1091
Schedules of salaries, Budget, modification of:
No. 1429 394, 3001
No. 1431 394
No. 1435 3001
Transfers within:
Appropriation for 1909 2315
Appropriation for 1910 (disapproved) 67, 548
Appropriation for 1910 1102, 1763, 2282, 2315
Appropriation for 1911 3002
Special Sessions, Court of:
Associate Justices, appropriation for increase in salaries of 748, 1006
Attendants:
Issue of special revenue bonds for compensation of 1883, 1984
Schedule for fund 1986
Children's Court, First Division, site and building for 1596, 3307, 3308, 3310
Children's Court, Richmond, appropriation for equipping 1767, 2068
Contingent Fund, 1910, appropriation for 525, 729
Contingencies, 1911, appropriation for 102
Court rooms and offices, additional:
Alterations to rooms in basement of Criminal Courts Building, Manhattan, appropriation for 748, 971
Equipment and furniture, appropriation for 102, 748, 972, 1883, 2067
Probation officers:
Appropriation for equipping quarters in Ashland Building, Manhattan 993, 1883, 2067, 2158, 2994, 3282
Appropriation for salaries 2336
Establishment of position 1071, 2336
Schedule of salaries, approval of 2338
Rent of office for Chief Justice, appropriation for 1767, 2068
Richmond County Society for the Prevention of Cruelty to Children, issue of special revenue bonds to provide for care of children held for arraignment in Children's Court 1377, 3257
Salaries, appropriation for 102
Salaries, establishment of positions and grades:
Associate Justice 730
Attendant 1293, 1653, 2678
Clerk (Part II) 1597, 3094
Court Attendant 2678, 3116
Court Stenographer (Part II) 1597, 3094
Deputy Clerk (Part II) 1597, 3094
Probation Officer 1071, 2336
Stenographer and Typewriter (female) 1071, 1444
Salary schedule, Budget, modification of No. 1423, disapproved 4354
Stenographer and Typewriter, Office of Chief Probation Officer:
Issue of special revenue bonds for salary of 1883, 1984
Schedule for fund 1986
Supplies, appropriation for 102
Transfer within appropriation for 1911 2706

PAGE

- Supreme Court, Kings County:
  - Schedule of salaries, Budget, modification of 342, 2136
- Supreme Court, Richmond County:
  - Court Attendants:
    - Fixing of compensation 2589
    - Increase in salary, appropriation for.......................... 3294
    - Schedule for fund 3295
- Surrogates:
  - Kings County:
    - Comparers:
      - Issue of special revenue bonds for salaries.............. 2343, 2789
      - Schedule for fund 2790
    - Copyist, appropriation for compensation of 98
    - Laborers, appropriation for increasing compensation of 94
    - Salaries, establishment of positions and grades:
      - Assistant to Index Clerk 1293, 1814
      - Chief Clerk 1560
      - Comparer 1293, 1814
      - Laborer, changing title to Assistant Clerk 526, 769
    - Salaries, request for establishment of grades of positions, filed in 1910 1410
  - New York County:
    - Transfers within:
      - Appropriation for 1910 540
      - Appropriation for 1911 1126
  - Queens County:
    - Copyist, establishment of grade of position.................. 2084, 3092
    - Fireproof building for storing records, appropriation for erection of 1378, 3433
  - Richmond County (see County Court and Surrogate's Court).
- Court House, Borough of The Bronx—
  - Electric work in 946
  - Completion of 1768, 3314
- Court House, New York County—
  - Appointment of Commission of Architects to report upon comprehensive plan relative to selection of site 2741
  - Protest against erection of Court House in City Hall Park............ 3127
  - Senate Bill No. 541, relative to selection of site, opposition to enactment of 1845
  - Site, selection of, report of Corporate Stock Budget Committee, relative to 3305, 4348
- Court House (new), Richmond County, acquisition of site and construction of 3325
- Crandall, John W., communication from, relative to additional hospital facilities for tuberculosus patients 3153
- Cross, Austin & Ireland Lumber Co.—
  - Construction of pipe under and across Grand street, near Stewart avenue, Brooklyn:
    - Application 695
    - Commencement of work 1876
    - Execution of contract 1665
    - Grant of consent 1193
    - Mayor's approval 1477
- Crotona Park, corporate stock for opening and extending an addition to. 1374
- Crotona Park North and Vicinity, petition of property owners for removal of grand stand in athletic field in Crotona Park North................ 993, 2084
- Croton Falls Dam and Reservoir Proceedings—
  - Corporate stock for:
    - Bill of Commissioners of Estimate and Appraisal 1130, 2132
    - Costs. counsel fees and awards 1377, 1816, 1881
    - Engineering and contingent expenses.......................... 3487

D

- Davis, C. S., communication from, relative to additional hospital facilities for tuberculosus patients 2995

PAGE

- Dean & Company, R. J.—
  - Compensation for use and maintenance of pipe under Greenwich street, Manhattan:
    - Removal of pipe and collection of amount due.................... 2955
    - Resolution approved by Mayor.................................. 4260
- Deficiencies in tax levies for 1904 and prior, release of authorization of corporate stock in Corporate Stock Budget 3434
- Delafield, John Ross, communication from, relative to construction of Henry Hudson Memorial Bridge 1293
- Departmental Estimates for 1912—
  - Applications for establishment of positions and grades to be submitted with departmental estimates 3115
  - Hearings of departments, etc..........................1981, 2054, 2154, 2343, 2600
  - Hearings of taxpayers 1981, 2054, 2154, 2343, 2600, 2697
  - Requests for increases in salaries to be submitted with estimates for 1912 2742
  - Salaries, increases in, and establishment of positions and grades, applications of various departments returned for submission with departmental estimate for Budget 3115
  - Submission of departmental estimates 1981, 2054, 2154, 2343, 2600, 2697
- Deuel, Joseph M., claim for expenses incurred in proceeding to remove him from office 540, 592, 714, 749
- DeVarona, I. M., discontinuance of suit by Reis & O'Donovan against.... 2317
- Dibbins, Thomas H., claim of as Assistant Supervisor of Janitors, Department of Education 3126
- District Attorneys—
  - Kings County:
    - Assistant District Attorneys:
      - Issue of special revenue bonds for salaries of two additional 2994, 3280
      - Schedule for fund.. 3281
    - Bond Clerk, issue of special revenue bonds for increasing salary of 4414
    - Contingencies, 1908, 1909 and 1910, appropriation for deficiencies in 1132, 1449
    - Process Servers:
      - Appropriation for salaries of................................ 931, 1121
      - Establishment of grade of position 1091
    - Rent of offices, issue of special revenue bonds for.............. 2995, 3278
    - Salaries, request for establishment of grades of positions, filed in 1910 1410
  - New York County:
    - Additional Assistant District Attorneys and Grand Jury Stenographers:
      - Appropriation for salaries.................................. 2994, 3295
      - Schedule for fund 3299
    - Grand Jury Stenographer, establishment of grade of position.... 4316
    - Northern Bank of New York, Washington Savings Bank and Carnegie Trust Company, issue of special revenue bonds for investigation of conduct of persons connected with............ 2044
    - Office equipment, appropriation for purchase of.................. 2994, 3295
    - Triangle Waist Company fire disaster, issue of special revenue bonds for investigation of 2044
  - Queens County:
    - Conduct and trial of indictments found by Grand Jury (May Term), request for appropriation returned 372
    - Contingencies, 1910, issue of special revenue bonds for 385, 815
    - Salaries, establishment of new positions, request for, disapproved.. 1325
  - Richmond County:
    - Process Server:
      - Issue of special revenue bonds for salary of................. 2344, 2784
      - Schedule for fund 2784
    - Salaries, establishment of positions and grades:
      - Chief Clerk 1883, 3116
      - Clerk 568, 1077
      - County Detective 568, 1077
      - Process Server 1077
    - Transfer within:
      - Appropriation for 1909 927

PAGE

- Ditmas, Andrew, purchase by City of water mains and appurtenances of 2810
- Docks and Ferries, Department of—
  - Approval of plans, specifications and estimates of cost, contracts chargeable to Corporate Stock:
    - Coal, furnishing and delivering 1800
    - Dredging and hard digging 68
    - Dredging in all boroughs 3037
    - Granite stone for bulkheads 1596, 1797
    - Lumber and piles, furnishing and delivering 1799
    - Piers:
      - "A," North River, fireproof record room and installation of metal filing cases in 284, 2682, 3012
      - 1 (new), North River, fire lines and stairways in 525, 813
    - Shed on pier at foot of Thirty-third street, South Brooklyn, construction of 1898
    - Supplies 1179
    - Tugs, services of 1596, 1797
  - Boring work for President of The Bronx, appropriation for expenses connected with 931, 2458, 2737, 2995, 3292
  - Brooklyn Ferries, Roosevelt street, Twenty-third street, appropriation for operation of 1070, 1398
  - Coal, standard specifications for purchase of, addition of clause relative to interference in delivery in case of a strike 3017
  - Corporate stock authorizations:
    - Acquisition of property through condemnation proceedings 3350
    - Construction and improvement of docks:
      - Miscellaneous supplies 1417
      - Payrolls of departmental employees 1417
    - Construction force, salaries and wages of 3354
    - Dredging waters of the harbor of The City of New York 1768, 2310
    - Ferryboat, new 3353
    - Jamaica Bay Improvement:
      - General improvement and development of Jamaica Bay, in Boroughs of Brooklyn and Queens, and general condition of the water front of the Boroughs of The Bronx, Brooklyn, Queens and Richmond (amendment of resolution authorizing issue of corporate stock) 3430
      - Preliminary work 656
    - Paving and repaving marginal streets and surface of piers 1768, 2310
    - Piers, construction of:
      - Cheever place, Harlem River (including wharf property) 3351
      - East Thirty-eighth street, East River (new) 3350
      - East One Hundred and Third street, East River (new) 3350
      - Nott avenue, Long Island City, Borough of Queens 3351
      - No. 43, North River (extension) 3351
      - One Hundred and Thirty-fifth street, North River (new) 3350
      - West Forty-fifth street, North River (extension) 3351
      - West Forty-sixth street, North River (extension) 3352
      - West Forty-seventh street, North River (extension) 3352
      - West Forty-eighth street, North River (extension) 3352
      - West Forty-ninth street, North River (extension) 3353
    - Pier at foot of Thirty-third street, Brooklyn, construction of shed on 1768, 2310
    - Pier A, North River, construction of fireproof record room in 1768, 2310
    - Riverside Park extension, construction of rip rap foundations and retaining walls, dredging, etc., in connection with 3353
    - Shelter houses for Longshoremen (2), construction of 3354
    - Staten Island Ferry, construction of steel and concrete platform in rear of ferryhouse at St. George, Borough of Richmond, and rearranging railroad tracks on lower level 3354
    - Thirty-ninth Street Ferry, construction of new ferryhouse in Brooklyn 3353
    - Tug "Richmond," rebuilding 1768, 2310
  - Corporate stock for uses and purposes of department 3253, 3349
  - Corporate stock estimates for 1911, etc. 68, 1133, 1294, 1600, 1944, 2364

PAGE
Dock Fund No. 1, release of unencumbered balances in 127
Dock investments prior to January 1, 1910:
  Application to Supreme Court, Appellate Division, for determination of amount to be exempted from debt limit of the City 2586
  Report of Comptroller, submitting statement showing indebtedness incurred and dates of maturity 2468
Engineering Bureau, increases in salaries of clerks in 568
Ferry from Grand street, Brooklyn, to Grand street, Manhattan, operation of 2600
Hilton, John T., petition for cancellation of judgment 2682
Improvement of South Brooklyn water front, between Twenty-eighth and Thirty-sixth streets, and Fifty-seventh and Sixty-first streets, request for discontinuance of condemnation proceedings for acquisition of property for 2291
Jamaica Bay improvement, preliminary work, etc., appropriation for 284, 656
Land under water between Eighty-first and One Hundred and Twentieth streets, Manhattan, reclamation of, report relative to 289, 570
Municipal Ferries, petitions for increases in compensation of:
  Bridgemen 2286, 3116
  Cleaners (female) 2286, 3116
  Deckhands 2286, 3116
  Mates 2343, 3116
Pier at foot of Fiftieth street and East River, Manhattan, communication from Central Federated Union of Greater New York, relative to construction of 2132
Salaries, establishment of positions and grades:
  Assistant Superintendent of Ferries 713, 3119
  Chainman and Rodman 526, 3086
  Commissioner of Docks 2459, 3097
  Dock Builder 1091, 1700
  Draftsman (Junior) 1091
  First Deputy Commissioner of Docks 2459, 3097
  Letterer 1700, 3119
  Oiler 3116
  Painter 1700, 3119
  Second Deputy Commissioner of Docks 2459, 3097
  Secretary to Commissioner 568, 1640
  Stoker 3116
  Storekeeper 1071, 1817
  Timekeeper 1091
Salaries, requests for establishment of various grades of positions, filed in 1910 1407
Schedules of salaries, Budget, modification of:
  No. 146 2047, 2085, 2355, 3057
  No. 154 1616, 1832, 2771, 3057
  No. 155 109, 775, 1791, 2773
  No. 156 (budgetary part allowance) 109, 775, 1791, 2773, 4403
  No. 167 109, 775, 1791, 2773, 4403
  No. 172 2047, 2085, 2355
  No. 173 109, 775, 996
  No. 188 775, 2320
  No. 189 775, 4356
  No. 194 1791, 3000
  No. 195 4356
  No. 196 109, 775, 1791, 2773, 4403
Staten Island Ferry:
  Automatic registers, rental of 1944, 2147
  Paving approach at St. George Terminal, appropriation for 284
Thirty-ninth street ferry, charter of two ferryboats, appropriation for 352
Transfers within:
  Appropriation for 1910 593, 1943
  Appropriation for 1911 2088, 3060, 4358
Transportation conditions at port of New York, reports relative to railroad terminals in Manhattan 527, 914, 1057, 1244, 1262

PAGE

- Water boring machine, employment of crew in connection with by President of The Bronx ... 931, 2458, 2737, 2995, 3292
- Duca, John, communication from, relative to transportation facilities ... 1889
- Dwyer, Thomas, claim of for labor and materials furnished the College of The City of New York ... 3122
- Dyckman's Taxpayers' Association, communications from, relative to—
  - Bridge across Harlem River at West One Hundred and Seventy-seventh street, The Bronx, to a point south of Dyckman street, Manhattan 993
  - Enlargement of public school at Broadway, near Academy street, Manhattan ... 1600
  - Transportation facilities ... 2741

E.

- Eastern Parkway Subway Route, Brooklyn (see Rapid Transit Railways)—
- East Flatbush Taxpayers' Association, communication from, relative to school site for Public School 135, Brooklyn ... 135
- East Tremont Taxpayers' Association, communication from, relative to additional transportation facilities ... 69
- Eberhard Faber Pencil Company—
  - Installation and maintenance of pipe under and across Kent street, Brooklyn:
    - Execution of contract ... 1869
    - Grant, revocation of ... 1474
    - Mayor's approval ... 1677
- Ebling Brewing Company—
  - Continuance of maintenance, etc., of tunnel, overhead pipes and wires across Eagle avenue, The Bronx:
    - Denial of petition ... 916, 1054, 1191, 1473
- Edison Electric Illuminating Company—
  - Operation in Thirtieth Ward, Brooklyn:
    - Injunction obtained by Company, etc ... 278, 517, 4282
    - Revocation of rights claimed ... 268
- Edlitz, Charles, claim for electrical work in City Hall, Manhattan ... 1292
- Education, Department of—
  - Additional appropriation for maintenance of public schools during 1912, and for construction and equipment of new buildings and acquisition of school sites, communication from Brooklyn League, relative to ... 3052
  - Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
    - Borough of Brooklyn:
      - Alterations in Public School 113 ... 405
      - Bushwick High School, general construction of ... 2181
      - Electric equipment in:
        - Public School 165 ... 1657
        - Public School 168 ... 3173
        - Public School 171 ... 2316
      - Fireproofing of indirect heating stacks in Girls' High School 580
      - Fire protection work in various schools ... 1338, 1897, 2065
      - Furniture work for:
        - Erasmus Hall High School (new addition to) ... 1840
        - Girls' High School ... 361
        - Public School 19 ... 2169
        - Public School 165 ... 2845
        - Public School 167 ... 3288
      - Gas and electric lighting work, alterations and additions to in Public Schools 24, 41, 52 and 70 ... 3287
      - Grading, etc., at Public School 136 ... 361
      - Grate bars for:
        - Erasmus Hall High School ... 1389
        - Public Schools 165, 167 and 168 ... 1389
      - Heating and ventilating apparatus and temperature regulation for:

PAGE

    - Boys' High School 3169
    - Public School 165 1563
    - Public School 168 1632
    - Public School 171 2073
  - Heating, etc., at Public School 167 361
  - Pianos for various public schools 3226
  - Steam boilers at Erasmus Hall High School 648
- Borough of Manhattan:
  - Alterations to pupils' stairs in Public School 87 2728
  - Athletic field at Clinton, Cherry and Water streets, storage and locker building, etc., for 2175
  - Electric equipment in Public School 95 1657
  - Electric equipment in Washington Irving High School 3226
  - Enclosing pupils' stairs:
    - Public Schools 87 and 94 2729
    - Public School 184 2448
  - Fire protection work in various public schools ... 651, 1149, 1401, 2072, 2448
  - Fire stops in attics of various schools 3169
  - Furniture for addition to Public School 95 2168
  - General construction of additions to and alterations in Public School 132 3035
  - General construction of Public School 61 2064
  - Grading, paving, etc., at various public schools 651
  - Grate bars for Public School 95 2063
  - Heating at Public School 95 580
  - Iron railings for Public Schools 93, 110 and 179 .... 722, 1430
  - Metal ceilings for public schools 1563, 2072
  - Pianos for various public schools 3226
- Borough of Queens:
  - Electrical equipment, etc., addition to Public School 7 1014
  - Fire protection work in various public schools 648, 651, 2149
  - Furniture for additions to:
    - Public School 7 4299
    - Public Schools 58 and 77 812
  - General construction of Public School 40 .... 817, 1492
  - Grate bars for:
    - Public School 7 1389
    - Public School 77 1167
  - Gymnasium apparatus for Public Schools 7, 58 and 77 1549
  - Heating and ventilating apparatus, etc., at Public School 7 1548
  - Pianos for various public schools 3226
  - Portable buildings, annexes to Public Schools 32 and 46 4299
- Borough of Richmond:
  - Fire protection work at various public schools 2739
  - Outside iron stairways on Public Schools 14, 19, 20 and 26 580
  - Portable building annex to Public School 17 1116
- Borough of The Bronx:
  - Classrooms, new, in Public Schools 10, 11 and 43 .... 722, 1430
  - Electric equipment for:
    - Public School 40 (addition) 1824
    - Public School 46 2603
  - Fire protection work in various public schools 361, 1563
  - Furniture, etc., for:
    - Public School 40 (addition) 1657
    - Public School 44 648
  - General construction of additions to and alterations in Public School 20 4306
  - General construction of new Public School 47 .... 817, 1131
  - General excavation, etc., at Public School 20 1963
  - Grate bars for Public School 46 1389
  - Grates for boilers, etc., at Public School 44 1167
  - Heating and ventilating apparatus and temperature regulation in additions and alterations in Public School 40 4301
  - Heating in Public School 46 648
  - Iron railings for Public Schools 10, 11 and 43 1430

PAGE

    - Pianos for various public schools 3226
    - Portable building for Public School 15 405
    - Sliding doors for Public Schools 10, 11 and 43 1430
  - Normal College, first portion of new college building (Thomas Hunter Hall) 621
- Athletic Field, Crotona Park North, petition for removal of grand stand in 993, 1624, 2084
- Budget segregation for 1911, revision of 463
- Bureau of Buildings, appropriation for salaries of Inspectors, Draftsmen, et al., in 1378, 1753, 3336
- Claims of Andrew J. Maguire, John S. Bannon, Frank T. Bergan and Thomas H. Dibbins for salaries as Supervisor and Assistant Supervisors of Janitors 3126
- Classes of anaemic children, issue of special revenue bonds for furnishing certain supplies and equipment for 2994, 2995, 3290
- Corporate stock authorizations and amendments:
  - Awards and costs in school site proceedings equipment and construction work in various school buildings, etc. 2682, 3181
  - Boys' High School, Brooklyn (addition), furniture work for 446
  - Bureau of Buildings:
    - Contingencies, including surveys, borings, drafting, supplies, etc. 3336
    - Salaries and wages of Inspectors and Draftsmen 3336
  - Central Supply Depository, First avenue, Sixty-seventh and Sixty-eighth streets, Manhattan, acquisition of sites and construction and equipment of building 3348
  - Drafting supplies, etc. 68, 1074
  - Elementary school buildings in Manhattan and Brooklyn, construction of 446, 3338
  - Equipment of school buildings under construction, including electric, heating, ventilating and furniture work, etc. (reduction in amount) 3181, 3342, 3346
  - Fire protection work in public schools, all boroughs 3253, 4345
  - High schools:
    - Borough of Brooklyn:
      - Boys' High School, furniture work for addition 446
      - Bay Ridge High School, interior construction and equipment of 3337
      - Bushwick High School, interior construction and equipment of 3337
      - Erasmus Hall High School, furniture work, steam boilers, etc., for addition 446, 3338
      - Girls' High School, furniture work for addition 446, 3338
      - High School at Irving and Putnam avenues and Madison street, equipment of 158
    - Borough of Queens:
      - Flushing High School, Whitestone avenue, between Broadway and State street, construction of building 3348
    - Borough of The Bronx:
      - New High School, acquisition of site and construction of building for 3348
  - High school buildings in Brooklyn and elementary school buildings in Manhattan, The Bronx, Brooklyn and Queens, improvement of and additions to 446, 3338
  - New buildings and additions in Manhattan and Brooklyn, construction of 446, 3338
  - New York Parental School, Flushing, construction and equipment of six cottages and stable for 3332
  - Normal College, interior construction and equipment of new building 3425
  - Public schools:
    - Borough of Brooklyn:
      - Construction and equipment of new buildings on following sites:
        - Blake avenue, between Hopkinson avenue and Bristol street 3331

PAGE
Dumont avenue, between Alabama and Williams avenues 3331
East Ninth and Tenth streets, between Avenues K and L 3332
Fourth avenue, Twenty-ninth and Thirtieth streets.. 3331
Pennsylvania avenue, between Liberty and Glenmore avenues 3331
Construction and equipment of new buildings on following sites, when acquired:
East and south of site on Twelfth avenue, Sixty-fourth and Sixty-fifth streets 3335
Vicinity of South Third street and Driggs avenue (new Public School 50).......... 3335
Construction of Public School 28.......... 3348
Construction of two portable school buildings on grounds of Public School 97.......... 3336
Furniture work for Nos. 19, 165 and 167.......... 446
Pianos for various public schools.......... 446
Borough of Manhattan:
Construction and equipment of addition to No. 72...... 3330
Construction and equipment of addition to No. 78........ 1075
Construction and equipment of addition to No. 137........ 132, 1580
Construction and equipment of new building on West One Hundred and Seventy-sixth and One Hundred and Seventy-seventh streets, east of St. Nicholas avenue.. 3330
Construction and equipment of new Public School 102.... 3330
Furniture work for No. 95 446
Pianos for various public schools 446
Public school in vicinity of Williamsburg Bridge, Borough of Manhattan, acquisition of site and construction and equipment of building 3348
Borough of Queens:
Construction and equipment of:
Addition to Public School 45.......... 3332
Addition to Public School 49.......... 3332
Addition to Public School 71.......... 3332
Construction and equipment of new buildings on following sites, when acquired:
Fairview avenue and Hillside avenue, Corona Heights 3336
Hillside avenue and Cherry street, Douglaston...... 3335
Furniture work for Nos. 7, 58, 77.......... 446
Pianos for various public schools 446
Borough of Richmond:
Construction and equipment of new Public School 22, Washington and Columbus avenues, Graniteville...... 3333
Borough of The Bronx:
Construction, equipment of addition to and electrical work in Nos. 20 and 39 1021
Construction and equipment of addition to No. 43........ 1021
Construction and equipment of new buildings on following sites, when acquired:
Vicinity of One Hundred and Sixty-eighth street, Park and Washington avenues 3334
Vicinity of Tinton avenue and East One Hundred and Sixty-third street 3334
Vicinity of Union avenue and East One Hundred and Fifty-fifth street 3334
Vicinity of Vyse and Bryant avenues and One Hundred and Seventy-third street 3334
Construction and equipment of new Public School 45.... 1807
Furniture work for Nos. 40, 44 and 46.......... 446
Pianos for various public schools 446
Portable school house for No. 48, construction of........ 1182
Portable school buildings at Spofford avenue and Faile street 1820

PAGE

- School sites:
  - Acquisition of sites in Brooklyn, Manhattan and Queens 1419
  - Awards and costs in school site proceedings, equipment and construction work in various school buildings, etc. (amendment) 3183
  - Costs, charges and expenses incidental to condemnation of school sites 3337
  - Borough of Brooklyn:
    - Bay Ridge High School, purchase of site (reduction in amount) 3348
    - Blake avenue, between Bristol street and Hopkinson avenue .. 1421
    - Dumont avenue, between Williams and Alabama avenues 1421
    - Pennsylvania avenue, between Liberty and Glenmore avenues .. 1421
    - Public School 28 3348
    - South Third and Driggs avenue 3333
    - Twelfth avenue, Sixty-fourth and Sixty-fifth streets 3333
  - Borough of Manhattan:
    - Vicinity of Williamsburg Bridge 3348
    - West 176th and 177th streets, between St. Nicholas and Audubon avenues 1421
    - Site on Hamilton place, west of One Hundred and Fortieth and One Hundred and Forty-first streets, payment of awards and interest 3337
  - Borough of Queens:
    - Broadway, Whitestone avenue and State street, Flushing 1421
    - Fairview avenue and Hillside avenue, Corona Heights 3333
    - Hillside avenue and Cherry street, Douglaston 3333
    - Orchard avenue and Elm street, Richmond Hill 425
  - Borough of Richmond:
    - Washington and Columbus avenue, Graniteville 3332
  - Borough of The Bronx:
    - One Hundred and Sixty-eighth street, Park and Washington avenues 3333
    - Tinton avenue and East One Hundred and Sixty-third street .. 3333
    - Union avenue and East One Hundred and Fifty-fifth street 3333
    - Vyse and Bryant avenues and One Hundred and Seventy-third street 3333
  - Surveys, etc. 68, 1074
- Corporate Stock Budget:
  - Adoption of 3326
  - Authorizations of corporate stock for sites and buildings contingent upon subsequent approval 3349
- Corporate stock estimate for years 1911-1915 .... 527, 1701
- Evening playgrounds:
  - Issue of special revenue bonds for furnishing music and equipment for, during 1911 .... 1699, 1841, 1967, 2054, 2153
  - Schedule for fund 2154
- General repairs, issue of special revenue bonds for replenishing fund for 2294, 2995, 3293
- General School Fund for 1911, reapportionment of 463
- Inadequate school accommodations, communications relative to, from:
  - Mothers' Club, Public School 39, The Bronx 1021
  - North Side Board of Trade, relative to Public Schools 20 and 39, The Bronx 1021
  - Parents' Association of Public Schools 132 and 169, Manhattan .. 1293, 1580
  - Patrick Keenan Association, relative to Public Schools 20 and 39, The Bronx 86, 1021
  - Washington Heights Taxpayers' Association, relative to Public School 169, Manhattan 2847
- Inquiry into organization, methods and equipment of Department, appointment of committee to conduct 185
- Janitors, Janitor-Engineers, etc.:
  - Claims for salaries for May and July, 1910, of Supervisors and Assistant-Supervisors of Janitors 3126
  - Deductions in compensation of 125, 1561
  - Deficiency in salaries of, appropriation for 1488, 1807

PAGE

Fixing of compensation, etc.:
  Communications from Board of Education, relative to........ 67, 283, 386, 526, 932, 1071, 1133, 1377, 1597, 1701, 1768, 1944, 2085, 2678, 2994, 3303
  Reports of Committee on salaries and grades, relative to........ 365, 961, 1174, 1359, 1447, 1587, 1588, 1846, 1936, 1938, 2070, 2446, 3016, 4317, 4407
Kingman, E. S., communication from, relative to establishment of grades of Draftsman in Bureau of Buildings...................... 2286
Local School Board, District No. 33, Brooklyn, communication from, relative to erection of new school on site of Public School 18, Brooklyn 1701
Local School Board, District No. 37, Brooklyn, communication from, relative to congested conditions at Public School 112, Brooklyn.. 1489
Local School Board, District No. 23, The Bronx, communication from, relative to school site on East One Hundred and Forty-first street, between Powers and Cypress avenues, The Bronx................ 162
Manhattan Trade School for Girls, appropriation from sale of products of, to Special School Fund for 1911......................285, 766, 1596, 1965

Normal College:
  Audit of payrolls for teaching force............................ 667, 1072
  Corporate stock estimate for years 1911-1915...................... 753
  New building, construction of first portion, approval of plans and specifications for 621
Parents' Association of Public School 132, Manhattan, communication from, relative to establishment of branch library in vicinity of One Hundred and Eighty-first street and Broadway.............. 1488
Pianos for various public schools in Manhattan, The Bronx, Brooklyn and Queens, authority to award contracts for to other than lowest bidders 3303
Playground adjoining Brooklyn Training School for Teachers, appropriation for construction of 1293, 1768, 2344
Potter, Jennie L., communication from, relative to her status on teaching staff 1491
Public School 97, Brooklyn, appropriation for construction of two portable school buildings on grounds of....................... 1600
Public school at One Hundred and Seventy-sixth street, Manhattan, communication from Washington Heights Taxpayers' Association, relative to construction of 2847
Public school on Broadway, near Academy street, Manhattan, communication from Dyckman Taxpayers' Association, relative to enlargement of 1600
Public School 78, Manhattan, protest against appropriation for erection of an addition to 1075
Public School 49, Jamaica, communication from Jamaica East End Civic Association, urging appropriation for construction of addition to 1888
Public School 65, Queens, communication from Mothers' Club, relative to construction of an addition to 1701
Public School 34, Van Nest, request for appropriation for erection of an addition to 365
Public School 12, Westchester, request for appropriation for construction of annex for 387, 957
Reduction in Budget appropriation for 1911, communication relative to 625
Renewal of lease of annex to Public School 8, on Two Hundred and Ninth street and Hull avenue, The Bronx 958
Salaries, establishment of positions and grades:
  Architectural Draftsman 1768, 2590
  Assistant Foreman Carpenter 1768, 2590
  Assistant Ship's Cook, Nautical School 2084, 3116
  Attendance Officer 963, 1293, 3080
  Auto Truck Driver 932, 1172
  Chief of Electrical Division, Bureau of School Buildings.......... 932, 3116
  Cleaner 526, 932, 1088, 1172, 3115
  Clerk 1323, 1597, 2678
  Deputy Superintendent of School Supplies........................ 2678, 3115
  Draftsman's Helper 2084, 3240

PAGE
  Elevator Attendant 1127
  Examiner 2678, 3115
  Expert Blue Printer 1768, 2590
  Fireman in Nautical School 1810
  Gardener 386, 961
  Janitors, various school buildings (see Janitors, Janitor-Engineers, etc.).
  Junior Architectural Draftsman 1132, 1579
  Junior Draftsman 1132, 1579, 2085, 3240
  Junior Mechanical Draftsman 1132, 1579
  Leader (Band) 1844, 2038
  Librarian 1323, 1597
  Mason 2590
  Mechanical Draftsman 2590
  Musician 1844, 2038
  Painter 1768, 2590
  Pipefitter 283, 386, 1046
  Ship's Cook, Nautical School 2084, 3116
  Senior Attendance Officer 963
  Special Laborer 2590
  Steward, Nautical School 2084, 3116
  Stenographer and Typewriter 1323, 1597
  Structural Steel Draftsman 2590

Salaries of Teachers, revision of:
  Communication from Parents' Association, Public School 4, The Bronx, relative to 140

Salaries, requests for establishment of grades of positions, filed in 1910 1411

Schedules of salaries and wages, Budget modification of:
  For 1910:
    No. 958 96
    Nos. 984-987 (disapproved) 338
    No. 986 76
    No. 988 .... 372, 2441
  For 1911:
    No. 1208 .... 374, 722, 753, 1095, 2837
    No. 1209 .... 1514, 1948, 2356, 2837, 4400
    No. 1210 .... 722, 753
    No. 1211 .... 374, 2837
    No. 1212 .... 374, 722, 753, 1095, 1100, 1721, 2837
    No. 1213 .... 374, 722, 753, 1721, 1977
    No. 1214 .... 374, 758, 1095, 1977, 2441, 2837
    No. 1215 .... 374, 824, 2837
    No. 1216 .... 274, 722, 753, 2837
    No. 1217 (budgetary part allowance) 819, 1095, 1976, 3266
    No. 1221 .... 374, 824
    No. 1222 .... 824, 2356
    No. 1224 374

Schedules of salaries and wages, non-budgetary, approval of, Corporate Stock Force, Bureau of Buildings 1754, 2358, 3064, 3266

School for Claremont Heights, The Bronx, request for appropriation for 68

School sites:
  Borough of Brooklyn:
    Avenue C, East Second and Third streets 2682
    Avenue C, East Third and Fourth streets (rescission of request for acquisition) 2682
    Blake avenue, between Bristol street and Hopkinson avenue 1419
    Dumont avenue, between Williams and Alabama avenues 1419
    Pennsylvania avenue, between Liberty and Glenmore avenues 1419, 1970, 2160, 3021
  Borough of Manhattan:
    West One Hundred and Seventy-Sixth and One Hundred and Seventy-seventh streets, between St. Nicholas and Audubon avenues 1419

PAGE

- Borough of Queens:
  - Addition to Public School 56, Orchard avenue and Elm street, Richmond Hill ... 425
  - Broadway, Whitestone avenue and State street, Flushing ... 1419
  - Kolyer avenue and Lark street, Maspeth (request for acquisition rescinded) ... 1944
  - Kolyer avenue, Lark and Finch streets, Maspeth ... 1944
- Borough of Richmond:
  - Washington and Columbus avenues, Graniteville ... 2084, 2332
- Borough of The Bronx:
  - Cypress avenue, between One Hundred and Thirty-ninth and One Hundred and Fortieth streets ... 162
  - East One Hundred and Sixty-eighth street, College and Findlay avenues (rescission of request) ... 1596
  - East One Hundred and Sixty-eighth street, Findlay and Teller avenues ... 1596, 2332
- Charges, expenses, etc., incidental to acquisition of, appropriation for ... 1769
- Request for appropriation, made in 1910, returned ... 824
- Site on Avenue C, between West Third and Fourth streets, Brooklyn, communication relative to acquisition of ... 993
- Site on Hamilton place, between One Hundred and Fortieth and One Hundred and Forty-first streets, Manhattan, appropriation for costs and awards connected with acquisition of title to ... 1600, 3337
- Site on Norwood Heights, request for purchase of ... 958
- Site for Public School 135, Brooklyn, communication relative to ... 135

Supervisor of Janitors and Assistant Supervisor of Janitors, claims of for salaries for May and July, 1910 ... 3126

Temporary school structure (for Public School 98), under Williamsburg Bridge, Manhattan, communication relative to appropriation for ... 980, 3348

Training Ship "Newport":
- Issue of special revenue bonds for payment of salaries of employees ... 1377, 1571
- Schedule for fund ... 1572

Transfers within:
- Appropriation for 1909 ... 439, 788, 3132, 3148
- Appropriation for 1910 ... 925, 1594, 1761, 3132, 3134, 3148, 4277
- Appropriation for 1911 ... 824, 933, 2707, 2845
- Disapproval of request for transfer within appropriation for 1910 ... 1839
- Disapproval of request for transfer within appropriation for 1911 ... 3186
- Special School Fund, Borough of Richmond, for 1904, 1905, 1906, 1907, 1908 and 1909, account "water" ... 1445
- Special Trust Accounts, Public School Library and Special High School Fund ... 789

Whitlock, E. J., communication from, relative to modification of Budget Salary Schedules for 1911 ... 386, 722, 753

Wilmot, Alfred E., payment of arrears of salary to ... 1100

Eggs, standard specifications for purchase of ... 68, 129

Ehret, George:
- Continuance of maintenance of tunnel under East Ninety-second and Ninety-third streets, Manhattan:
  - Execution of contract ... 912
  - Grant of consent ... 253
  - Mayor's approval ... 484

Ehret, George, and Jacob Ruppert:
- Continuance and maintenance, etc., of pipes under East Ninety-third street and Avenue A, to East River, Manhattan:
  - Execution of contract ... 919
  - Grant of application ... 253
  - Mayor's approval ... 484
  - Rescission of grant by Board of Aldermen ... 266

Elections, Board of:
- Transfer within appropriation for 1910 ... 92

PAGE
Electrical work, etc., in public buildings, approval of plans and specifica-specifications by Department of Water Supply, Gas and Electricity.... 526
Electric Protection Company—
Construction, etc., of wires and other electrical conductors in streets, avenues and highways of City for fire alarm and burglar alarm systems:
Affidavit in relation to use of "Areo" Fire Alarm.................. 486
Approval of agreement in relation to maintenance of apparatus in Fire and Police Headquarters 484, 1060
Consent to install apparatus in Fire Headquarters................ 1060
Execution of contract 1056
Grant of franchise 489
Mayor's approval 685, 1191
Electrical Workers, communication from Brotherhood of, relative to violations of Civil Service rules 1126
Eleventh Avenue Track Removal Association, communication from, relative to taxes due City of New York by New York Central and Hudson River Railroad Company 1070, 1400, 2044, 2291, 2459, 2724, 2760, 2994, 3152
Elmhurst Taxpayers' Association, communication from, relative to establishment of paid Fire Department in Second Ward, Borough of Queens 1702
Emerson Contracting Company, rent of street cleaning machines from.... 2074, 3138
Empire City Subway Company, Ltd., matter of settlement of the case of the City vs. the 1277
Engel & Engel, disapproval of claim in connection with contract for erection of boiler house on Blackwell's Island........................ 972
Engineering service of The City of New York, communication from New York Civil Service Association, relative to making uniform the salaries in the 749, 1641, 1945
Erie Basin Board of Trade, communication from, relative to additional transportation facilities, etc. 388
Estimate and Apportionment, Board of (general matters relating to)—
Admission of service of notice of meeting.......................... 1
Annual manual of statistics, publication of.......................... 1505
Bureau of Franchises, segregation from office of Chief Engineer.... 2126
Burr, Edgar M., resignation of position as Topographical Draftsman.. 1102
Calendar for meeting of July 17, 1911, preparation of................ 3244
Charter of The City of New York, amendments to, affecting functions of the Board of Estimate and Apportionment 1845, 1905
Committees of Board, appointment of, on:
Budgetary Publicity 1346
Census of The City of New York 1347
Court House Site for New York County........................ 1845
General Pension System, appointment of advisory committee of five, in conjunction with Committee on Standardization of Salaries and Grades 1920
Fire Protection, amendment of laws relative to.................. 1367
Inebriety, establishment of Board of............................. 993
Laborers, reclassification of.. 1127
Municipal Reference Library.. 1346
Municipal Revenues, new sources of................................ 285, 568
Recreational facilities, combination of present agencies having jurisdiction 1171, 1841, 1890, 2043
Telephones, maintenance of by the City, in homes of public officials 1072
Contingent Fund for 1911, expenses chargeable to................... 1367
Meetings: 1, 125, 193, 385, 479, 555, 671, 739, 831, 989, 1049, 1129, 1189, 1279, 1369 1455, 1591, 1661, 1755, 1853, 1941, 1993, 2083, 2193, 2365, 2451, 2635, 2655, 2745, 2849, 2863, 2867, 3143, 3145, 3247, 3447, 3451, 4255
Meetings, calls for 1, 2367, 3145, 3451
Meetings of Board on July 27 and August 31, 1911.................... 2737, 2800
Minutes, approval of: 1, 125, 283, 385, 479, 568, 671, 831, 989, 1049, 1129, 1369, 1455, 1591, 1661, 1755, 1853, 1941, 1993, 2083, 2193, 2451, 2655, 2745, 2867, 3145, 4255
Municipal Reference Library: matter of establishment of a permanent 1346
New York Telephone Company, contract with........................ 592
Reorganization of office and increase in salaries of attaches............ 1102

PAGE

Repaving policy of the City, report of Chief Engineer of the Board, relative to 2126, 2312, 2729
Salaries:
Establishment of grades of positions of:
Assistant Engineer 2038
Clerk 2038, 3139, 4399
Draftsman 2038
Engineer in Charge 2038
Law Clerk 2038
Stenographer and Typewriter 2038
Increases in salaries of attaches of Secretary's office and Engineering staff:
Issue of special revenue bonds for 1911, 1944, 2038, 2708
Schedule for fund 2709, 3049, 4399
Salaries of employees fixed 972, 2710, 3050, 3139
Schedule of salaries, Budget modification of:
No. 1348 2711, 3057
No. 1349 972, 2711, 3051
Transfer within:
Appropriation for 1911 977, 1589, 1591
Estimator, matter of establishment of position in Building Bureaus, all Boroughs 526, 1077, 1418, 2995
Evening Playgrounds—
Continuance of, during summer months 2343
Music and equipment, appropriation for 1699, 1841, 1967, 2054, 2153
Evening Recreation Centers, continuance of, during summer months 2343
Excelsior Brewing Company of Brooklyn, communication from, relative to transportation facilities 2192
Excello Paint and Oil Company, claim for oil and other supplies furnished the Department of Water Supply, Gas and Electricity 4416

F.

Farmers' & Taxpayers' Association, Borough of Queens, communication from, relative to transportation facilities 3303
Ferris, Morris Douw, communication from, relative to additional hospital facilities for tuberculosis patients 3153
Ferry matters (see Docks and Ferries, Department of).
Field, Violet H., communication from, relative to additional hospital facilities for Tuberculosis patients 2764
Fifth Avenue Association of New York, communication from, relative to transportation facilities 1133
Finance and Miscellaneous:
Authorizations in corporate stock budget 3433
Finance, Department of—
Annual manual of municipal statistics, report of Comptroller, relative to publication of 1494
Borrowing capacity of the City, statement of Comptroller relative to anticipated margin of, on June 30, 1911 85
Charitable institutions:
Transfers within appropriation for 1910 657, 703, 1755, 2747
Contracts chargeable to corporate stock accounts:
Comptroller to pass upon plans, etc., during months of August and September 3153, 3303
Extent of Comptroller's authority 714, 772, 955, 1029, 1088, 1353
Plans, specifications and estimates of cost to be first submitted to Comptroller 85, 1077
Plans, specifications and estimates of cost chargeable to corporate stock authorizations adopted July 17, 1911, to be submitted to Board for approval 3303
Co-operation with other departments, matter of 569, 1967
County offices, issue of special revenue bonds for rent of property leased for 2995, 3278
Corporate stock estimate for 1911 for Finance, Miscellaneous Commissions and Commissioners 1701, 3433

PAGE

- Dock investments prior to January 1, 1910:
  - Application to Supreme Court, Appellate Division, for determination of amount to be exempted from debt limit of the City.... 2586
  - Report of Comptroller, submitting statement showing indebtedness incurred and dates of maturity 2468
- Payroll expenditures:
  - Quarterly statement to be prepared by Comptroller 126
  - Statement of Comptroller showing disbursements for:
    - November, 1910 112
    - December, 1910 432
    - January, February and March, 1911 1931
- Rapid transit indebtedness, statement of Comptroller relative to amount incurred prior to January 1, 1910, for Brooklyn-Manhattan Rapid Transit Railroad which may be excepted from debt limit....141, 290, 552
- Release of corporate stock fund for deficiencies in tax levies for 1904 and prior 3434
- Salaries, establishment of positions and grades:
  - Bookkeeper 184
  - Clerk 1070, 1566
  - Inspector 1341
  - Medical Examiner 656
  - Searcher 655
  - Supervisor of Charitable Institutions 1700
- Salary schedules, rules governing the modification of, report of Comptroller relative to 1826, 1892, 1951
- Schedule of salaries, Budget modification of:
  - No. 25 ....300, 724, 975, 1342, 1624, 1906, 1972, 2286, 2461, 2760, 3040, 3153
  - No. 31 ....300, 429, 1342, 1624, 2286, 2627, 2679, 2760, 3040, 4332
  - No. 32 ....300, 724, 975, 1342, 1624, 1906, 2286, 2461, 2679, 3040, 3153, 4332
  - No. 33 ....300, 1624, 1906, 4332
  - No. 35 3052
- Steel filing cases, etc., in Room 11, Hall of Records, approval of plans, etc., for 2624
- Transfers within:
  - Appropriation for 1906 594
  - Appropriation for 1910 1487
  - Appropriation for 1911 ....303, 431, 729, 975, 2456, 2628, 2764, 4335

Fire and Burglar Alarm, and Messenger Companies, operation of.... 248

Fire Department—
- Approval of plans, specifications and estimates of cost, contracts, chargeable to corporate stock, for:
  - Aerial hook and ladder trucks 407, 1046, 1930
  - Auto attachments for steam fire engines.... 1969, 3175
  - Automobiles (2), for Chief of Department and Electrical Engineer 4354
  - Automobile hose wagons 402, 404, 1962, 3175
  - Chassis for high-pressure hose wagons.... 1969, 3175
  - Construction of fire houses in:
    - Borough of Brooklyn:
      - Avenue C, east of Twelfth street.... 1433
      - Carlton avenue, No. 160.... 1433
      - DeKalb avenue, No. 124.... 1433
      - Hicks street, No. 533.... 1433
      - Knickerbocker avenue, No. 582.... 1433
      - Metropolitan avenue, near Varick avenue.... 1433
      - St. John's place, Nos. 489-491.... 1433
      - Southwest corner of Smith and Lorraine streets.... 1433
      - Twelfth avenue, north side, west of Forty-second street 1433
      - Seventh avenue, near Fiftieth street.... 1433
    - Borough of Manhattan:
      - Fulton street, No. 191.... 1433
      - Lexington avenue and Fiftieth street.... 1433
      - One Hundred and Eleventh street, near Second avenue.... 1433
      - One Hundred and Eighty-first street, north side, near Audubon avenue 1433

PAGE
Borough of Queens:
Central and Mott avenues, Far Rockaway................ 1433
Spruce street, Richmond Hill............................ 1433
Borough of Richmond:
Sarah Ann and Hannah streets......................... 1433
Borough of The Bronx:
Bailey avenue and Boston road......................... 1433
Castlehill avenue, Unionport 1433
Morris avenue, between One Hundred and Sixty-eighth and One Hundred and Sixty-ninth streets............ 1433
Prospect avenue and One Hundred and Fifty-second street 1433
Fire Alarm Telegraph System:
Alterations to Headquarters in Manhattan................... 4306
Fire alarm box mechanisms, cases, doors, etc..........770, 1424, 1609, 1703
Manhole frames and covers for Manhattan and Brooklyn.... 1711
Motor trucks and self-propelled wagons for use in Borough of Manhattan 4354
Buildings, Division of, appropriation for deficiency in salary account of. 2995, 4302
Posts and underground cables on Amsterdam avenue, Broadway and Eighth avenue, Manhattan, placing of.......... 2834
Underground circuits in Borough of Manhattan, extension of.. 2833, 3067
Underground circuits in Long Island City, Borough of Queens, extension of 3036
Fire escapes on Headquarters, Brooklyn......................... 1919
Gas-electric chassis, tractors for water towers................. 3171
Gasoline self-propelling pumping engines........................ 407
Motor trucks 4354
Self-propelled wagons for chief officers 578, 4413
Terminal posts and boxes for Manhattan and Brooklyn......1312, 2796, 2996
Corporate stock authorizations and amendments:
Apparatus for all boroughs.. 3369
Apparatus for Boroughs of Manhattan, The Bronx, Brooklyn and Queens (amendment of previous authorization)............. 3371
Bureau of Horse and Equipment and apparatus repair building, St. Edwards and Bolivar street, Brooklyn, improving, equipping, etc. (reduction in amount)................................ 3374
Engine and hook and ladder companies:
Sites and buildings for:
Borough of Brooklyn:
Avenue C and East Sixteenth street (reduction in amount) 3373
Pennsylvania and Riverdale avenues:
Site, acquisition of 3366
Building, erection of 3367
Richardson street, west of Meeker avenue, acquisition of site (amendment of resolution by substituting site on Richardson street, west of Leonard street) 3233
Seventy-ninth street, between Eleventh and Twelfth avenues, erection of building...................... 3367
Stuyvesant avenue and Macon street (reduction in amount) 3374
Borough of Manhattan:
Dyckman street and Broadway, site and building...... 3371
Borough of Queens:
Benedict avenue and Fifth street, Woodhaven (reduction in amount) 3374
Flushing and Ninth avenues, Whitestone:
Site, acquisition of............................. 3366
Building, erection of............................ 3365
Fresh Pond road and Myrtle avenue:
Site, acquisition of 3364
Building, erection of 3364
Grand and Columbia avenues, Maspeth:
Site, acquisition of 3363
Building, erection of 3363

PAGE
Grand and Mulberry avenues, Corona:
Site, acquisition of ... 3362
Building, erection of ... 3362
Hoffman boulevard and Broadway, Elmhurst:
Site, acquisition of ... 3362
Building, erection of ... 3362
Hoffman boulevard and Greenpoint avenue, Newtown:
Site, acquisition of ... 3364
Building, erection of ... 3365
Jamaica and Union avenues, Woodhaven:
Site, acquisition of ... 3365
Building, erection of ... 3365
Main street, Nos. 78-80, Long Island City, improving and equipping building (reduction in amount) .. 3375
Metropolitan avenue and Fresh Pond road:
Site, acquisition of ... 3363
Building, erection of ... 3364
Borough of Richmond:
Broad and Brook street, Stapleton:
Building, erection of ... 3367
Site, acquisition of ... 3367
Concord Section:
Building, erection of ... 3366
Site, acquisition of ... 3366
Stapleton, in vicinity of Hook and Ladder Company 102 (recission of amount) ... 3375
Borough of The Bronx:
Ogden avenue, Highbridge (reduction in amount) 3373
Southern boulevard and Westchester avenue (reduction in amount) ... 3372
Wendover and Washington avenues (reduction in amount) ... 3373
Engine and Hook and Ladder Company Building at Stapleton, Staten Island, request for amendment of corporate stock authorization, by changing location of site, etc ... 2080, 3375
Fire Alarm Telegraph System:
Borough of Brooklyn:
Extension of system ... 3369
Station at Eastern parkway and Prospect Park, erection of building for ... 3368
Borough of Manhattan:
Extension of system ... 1919, 3369
Station in Central Park, erection of building for.... 3368
Borough of Queens:
Extension of system ... 3369
Borough of The Bronx:
Extension of system ... 3369
Station at St. Anns avenue, Roe street and Germain place, erection of building for ... 3368
Fire boats, construction and equipment of (reduction in amount) .. 3372
Fire boat (new), construction and equipment of ... 3370
Hose wagons, aerial trucks and steam fire engines (new), purchase of (amendment of previous authorization) ... 3370
Corporate stock budget ... 3359
Corporate stock estimate for 1911-1915 ... 2080
Draftsman, authority to charge compensation to Corporate Stock Account ... 117
Extension of paid system in all sections of the Borough of Queens.... 1423, 1600, 1629, 1702, 1905, 2085, 2608
Fire alarm apparatus, test of, before award of contracts for..771, 1424, 1609, 1703
Fire house at Gravesend, communication from Gravesend Board of Trade, relative to erection of ... 1944
Licensed Firemen, Marine Division, resolution of Board of Aldermen requesting increase in compensation of ... 1091

PAGE

- Mechanics in repair shops, issue of special revenue bonds for overtime work ... 4414
- Municipal Explosives Commission:
  - Deficiency in Budget appropriation for 1911 ... 1600
  - Fees and expenses for 1910, issue of special revenue bonds for.. 157
  - Fees and expenses for 1911:
    - Issue of special revenue bonds ... 2343, 2729
    - Schedule for fund ... 2732
  - Salaries, issue of special revenue bonds for a deficiency in account for.. 2995
  - Salaries, establishment of positions and grades:
    - Assistant Electrical Engineer ... 1767, 3076, 4410
    - Cable Splicer ... 1767, 3076, 4410
    - Cable Tester ... 1767, 3076, 4410
    - Chief Medical Officer ... 2764, 3075
    - Draftsman ... 568, 959, 1767, 3076, 4410
    - Engineer of Steamer ... 2740, 3078, 4283
    - Fireman ... 2740, 3078, 4283
    - Foreman Machinist ... 2038, 2587
    - Foreman Saw Filer ... 1133, 1811, 1890
    - Foreman Steamfitter ... 1133, 1811, 1890
    - Inspector of Blasting ... 1377, 1700, 1815, 3101
    - Licensed Fireman ... 1133, 1811, 1890
    - Licensed Fireman, Marine Division ... 1091
    - Masters and Pilots ... 1091
    - Storekeeper ... 2080, 2693
  - Schedules of salaries and wages, Budget modification of:
    - No. 960 ... 4405
    - No. 962 ... 3003
    - No. 965 ... 546, 1612, 4382
    - No. 967 ... 1612, 4382
    - No. 968 ... 3003, 4405
    - No. 969 ... 1612, 4382
    - No. 1015 ... 1612
    - No. 1021 ... 1612, 4382
  - Schedule of salaries and wages, non-budgetary, approval of, corporate stock force, Division of Buildings ... 1112, 4389
    - Fire Alarm Telegraph Bureau ... 4389
  - Sites for new fire houses, etc.:
    - Borough of Brooklyn:
      - Avenue C, between East Twelfth and East Thirteenth streets 145
      - Bristol street and Dumont avenue ... 424, 1554
      - Bristol street, between Blake and Sutter avenues ... 1554
      - Halsey street and Sumner avenue ... 1568, 1702, 1934, 3232
      - Marion and Reid avenues ... 3232
      - Richardson street, near Leonard street ... 3232
    - Borough of Manhattan:
      - Vermilyea avenue, between Dyckman and Academy streets.. 1355
    - Borough of Queens:
      - Benedict avenue, between Fulton avenue and Sterling street, Woodhaven ... 2159, 3020
      - Fifth avenue, between Newport and Washington avenues, Rockaway Park ... 1556
      - Oakley avenue, near Belmont avenue, Woodhaven ... 423
    - Borough of The Bronx:
      - Faile street and Seneca avenue ... 297
      - Nelson avenue and East One Hundred and Sixty-sixth street 1355, 1933
      - Washington avenue and East One Hundred and Seventy-second street ... 299, 1359
  - Terminal posts and boxes, award of contract to other than lowest bidder 2796, 2996
  - Transfer within appropriation for 1911 ... 1615, 3004, 3151, 3248, 4385, 4407
- Firemen and Oilers in various City Departments:
  - Resolution of Board of Aldermen, requesting increase in compensation of ... 1293, 3116
- Firemen's Memorial on Riverside Drive, Manhattan, appropriation for erection of foundation ... 3393

PAGE

- Fire protection, appointment of committee relative to amendment of existing laws in regard to 1367, 1601
- Fish, oysters and clams, standard specifications for purchase of 1082
- Fiske Terrace Association of Brooklyn, communication from, relative to transit facilities 2046
- Flaming arc lamps for use in City buildings, approval of specifications for 2633, 3129, 3156, 3472, 4284, 4286
- Flatbush Board of Trade, communications from:
  - Protesting the erection of the Court House for New York County in City Hall Park, Manhattan 3127
  - Relative to transportation facilities 1378
- Flatbush Taxpayers' Association, communication from, relative to transportation facilities 1378
- Flatbush Gas Company—
  - Franchise to maintain and operate an underground conduit on Ocean parkway, Brooklyn:
    - Filing of maps 1065
    - Payments under contract 1191
    - Terms of contract, compliance with 1475
- Flatbush, petition of citizens of, relative to transportation facilities 1072, 1133, 1294, 1378, 2291
- Flatbush Water Works Company—
  - Agreement with for rental of fire hydrants in Brooklyn 1314
  - Purchase of water mains operated by 2809
- Forage, standard specifications for purchase of 68, 129
- Forest Park, Borough of Queens, matter of improving 1489
- Fort Hamilton Citizens' Association, communication from, relative to transportation facilities 1294
- Forty-second Street, Manhattanville and St. Nicholas Avenue Railway Company—
  - Franchise to construct, etc., a certain loop terminal in Twelfth avenue, One Hundred and Twenty-ninth and Manhattan streets, Manhattan:
    - Execution of contract 62
- Fourth of July celebration, appropriation for 1981, 2124
- Franchises, permits, etc., applications for, by—
  - American Ice Company, Ice Manufacturing Company:
    - Consent to maintain and use a certain 16-inch pipe under East Seventieth street and Exterior street, Manhattan:
      - Joint application for the transfer of right of the American Ice Company to the Ice Manufacturing Company 2959
      - Grant of consent 2959
      - Mayor's approval 4260
  - Astor, John Jacob, Trustees for:
    - Maintenance, etc., of a spur track across Exterior street, near Ferncliff place, Borough of The Bronx:
      - Petition denied 516
  - Astoria Light, Heat & Power Company:
    - Construction, etc., of pipe under and across East One Hundred and Thirty-second street, east of Locust avenue, Borough of The Bronx:
      - Application 2022
      - Execution of contract 4266
      - Grant of consent 2254
      - Mayor's approval 2656
  - Atlantic Telephone Company:
    - Franchise to construct, maintain, etc., appliances throughout the streets, etc., of the City, for purpose of carrying on a telephone business:
      - Application denied 2671
  - Barta Publicity Column Company, installation and maintenance of certain vending machines on sidewalks throughout the City:
    - Application 1864
    - Denial of application 2036, 2677
  - Broadway and Seventh Avenue Railroad Company:

PAGE

Forfeiture of certain abandoned franchises and tracks in the streets of The City of New York:
  Communication from Corporation Counsel 2244
  Report of Franchise Bureau 2657
  Settlement of action 2664
Bronx Traction Company:
  Construction of additional tracks on Fort Schuyler road, from Westchester Square to the Eastern boulevard:
    Form of contract 2266
  Extension on Eastern boulevard and the Shore road to Fort Schuyler road, to northerly boundary line of the City:
    Denial of petition, report of Bureau of Franchises relative to 2266, 2276, 2931
    Opposition of property owners, communication relative to 4260
  Operation, etc., of railway on White Plains road, from Morris Park avenue to Gun Hill road, The Bronx:
    Consents of abutting property owners 914, 1063
    Execution of contract 501
Brooklyn, Queens County and Suburban Railway Company:
  Extensions to existing system on Utica avenue, from Church avenue to Avenue N, Brooklyn:
    Validity of franchise to maintain railway 229
City Island Railroad Company:
  Extension of time to complete change of motive power on street surface railways in The Bronx:
    Acceptance of agreement by Company 19
City Island Railroad Company and Pelham Bay Park Railroad Company:
  Change of motive power of street surface railways in The Bronx:
    Commencement of work by Railroad Company, matter of 1216, 1473, 2244
    Protest of City Island Board of Trade, etc. 1065, 1216, 2666
    Removal of tracks within limits of Pelham Bay Park 61, 219, 695, 1065, 1216, 2666
    Revocation of consent 2666
Claflin, H. B., & Company:
  Maintenance of pipe under and across Worth street, near West Broadway, Manhattan:
    Execution of contract 1472
    Grant of consent 687
    Mayor's approval 903
Clausen, H., & Son Brewing Company:
  Compensation for maintenance of unauthorized pipe under East Forty-seventh street, Manhattan:
    Action to recover 503
Collier, Robert J.:
  Construction, etc., of bridge across west Thirteenth street, Manhattan:
    Application 504
    Execution of contract 1189
    Extension of time to complete work 2260
    Grant of consent 697
    Mayor's approval 903, 2656
  Construction, etc., of steam pipes under West Thirteenth street, Manhattan:
    Application 1191
    Execution of agreement 1872
    Grant of consent 1477
    Mayor's approval 1677
Collins, D. W.:
  Temporary permit to lay spur track across Adams street, 100 feet west of Morris avenue, The Bronx:
    Grant of consent 2745
Coney Island and Brooklyn Railroad Company:
  Relocation of tracks on Coney Island avenue, Brooklyn:
    Report of Committee (majority) 565

PAGE

    Report of President of Brooklyn 739
    Rescission of previous action by Board 911
Conron Brothers Company:
  Construction, etc., of conduits under West One Hundred and Twenty-ninth, One Hundred and Thirtieth, One Hundred and Thirty-second and One Hundred and Thirty-fourth streets, Manhattan:
    Execution of contract 1053
    Grant of consent 193
    Mayor's approval 484
    Rescission of grant by Board of Aldermen 199
Consolidated Telegraph and Electrical Subway Company, communication from, in re grant of franchise to Riverside Light and Power Company 2251
Consumers' Brewing Company of New York, Limited:
  Construction, etc., of iron pipes under and across East Fifty-fourth street, Manhattan:
    Acceptance of consent by company 18
Cross, Austin & Ireland Lumber Company:
  Construction of pipe under and across Grand street, near Stewart avenue, Brooklyn:
    Application 695
    Commencement of work 1876
    Execution of contract 1665
    Grant of consent 1193
    Mayor's approval 1477
Dean & Company, R. J.—
  Compensation for use and maintenance of pipe under Greenwich street, Manhattan:
    Removal of pipe and collection of amount due 2955
    Resolution approved by Mayor 4260
  Eberhard Faber Pencil Company:
    Installation and maintenance of pipe under and across Kent street, Brooklyn:
      Execution of agreement 1869
      Grant, revocation of 1474
      Mayor's approval 1677
  Ebling Brewing Company:
    Continuance of maintenance, etc., of tunnel, overhead pipes and wires across Eagle avenue, The Bronx:
      Denial of petition 916, 1054, 1191, 1473
      Employment of consulting engineer to report on subject 1165
  Edison Electric Illuminating Company:
    Operation in Thirtieth Ward, Brooklyn:
      Revocation of rights claimed 268
      Injunction obtained by Company, etc. 278, 517, 4282
  Ehret, George:
    Continuance of maintenance of tunnel under East Ninety-second and Ninety-third streets, Manhattan:
      Execution of contract 912
      Grant of consent 253
      Mayor's approval 484
  Ehret, George, and Jacob Ruppert:
    Continuance of maintenance, etc., of pipes under East Ninety-third street and Avenue A, to East River, Manhattan:
      Execution of contract 919
      Grant of application 253
      Mayor's approval 484
      Rescission of grant by Board of Aldermen 266
  Electric Protection Company:
    Construction, etc., of wires and other electrical conductors in streets, avenues and highways of City, for fire alarm and burglar alarm systems:
      Affidavit in relation to use of "Aero" fire alarm 486

PAGE
Approval of agreement in relation to maintenance of apparatus in Fire and Police Headquarters ... 484, 1060
Consent to install apparatus in Fire Headquarters ... 1060
Execution of contract ... 1056
Grant of franchise ... 489
Mayor's approval ... 685, 1191
Fire and burglar alarm and messenger companies, operation of ... 248
Flatbush Gas Company:
Franchise to maintain and operate an underground conduit on Ocean parkway, Brooklyn, for supplying electricity, etc.:
Filing of maps ... 1065
Payments under contract ... 1191
Terms of contract, compliance with ... 1475
Forty-second Street, Manhattanville and St. Nicholas Avenue Railway Company:
Franchise to construct, etc., a certain loop terminal in Twelfth avenue, One Hundred and Twenty-ninth and Manhattan streets, Manhattan:
Execution of contract ... 62
Gair Company, Robert:
Construction, etc., of tunnel under and across Washington street, between Plymouth street and Water street, Brooklyn:
Execution of contract ... 1065
Grant of consent ... 213
Mayor's approval ... 484
Rescission of grant by Board of Aldermen ... 218
Construction, etc., of two tunnels under Washington and Water streets and Washington and Front streets, Brooklyn:
Acceptance of grant ... 234
Mayor's approval ... 32
Gimbel Brothers:
Unauthorized construction of bridge at southwest corner of Thirty-third street and Broadway, Manhattan:
Communication from President of Manhattan ... 911
Grant of consent ... 2261
Mayor's approval ... 2656
Petition for use of structure ... 1197
Extension of time to accept grant:
Petition ... 4272
Greenhut-Siegel Cooper Company:
Construction, etc., of conduit under and across Sixth avenue, between Eighteenth and Nineteenth streets, Manhattan:
Application ... 2670
Grant of consent ... 2692
Mayor's approval ... 4260
Gotham Electric Service Company:
Operation of a call and signal system for messengers in two sections of the Borough of Manhattan:
Acceptance of contract ... 684
Non-compliance with terms of contract ... 684, 886, 1065
Petition denied ... 1192, 1483
Gulick, John C.:
Communication from, relative to discontinuance of spur track on East Forty-second street, Manhattan, operated by Manhattan Elevated Railway Company ... 33, 234
Hardman, Peck & Company:
Installation, etc., of pipe under and across West Forty-ninth street, Manhattan:
Cancellation of bond by Comptroller ... 2957
Consent granted by Board of Aldermen, revocation of ... 1698, 2957
Mayor's approval ... 4260
Removal of pipe by company ... 2261
Harlem River and Portchester Railroad Company (see New York, New Haven and Hartford Railroad Company).

PAGE

- Heermance Storage and Refrigerating Company:
  - Construction, etc., of conduits under Duane, Hudson, Reade, Chambers, Greenwich and Washington streets, Manhattan:
    - Execution of contract 231
- Hollman, Henry, communication from, protesting third tracking of lines by Manhattan Elevated Railway Company 230
- Hupfel's Sons, A.:
  - Construction, etc., of a two-inch water pipe under St. Anns avenue, between East One Hundred and Fifty-ninth and One Hundred and Sixty-first streets, The Bronx:
  - Application 4267
  - Permission to lay pipe connecting premises on One Hundred and Fifty-eighth, One Hundred and Fifty-ninth streets, St. Anns and Brook avenues, The Bronx:
    - Application 2037
- Jay Street Connecting Railway:
  - Construction, etc., of spur tracks across Jay, John, Pearl, Plymouth and Gold streets, Brooklyn:
    - Amendment of contract 230
    - Designation of newspapers 1869
    - Execution of contract 2929
    - Final public hearing 1686, 2202
    - Grant of franchise 2202
    - Mayor's approval 2656
    - Proposed form of contract 19, 1677
- Keating Company, E. F.:
  - Maintenance of unauthorized pipe under Water street, Manhattan:
    - Payment for past use and occupation 2259, 4262
    - Removal of pipe by Borough President 2259, 4262
- Kirkman & Son:
  - Construction, etc., of tunnel under Bridge street, Brooklyn:
    - Commencement of work 2036
    - Completion of work 2897
    - Execution of contract 63
- Kleinert Rubber Company, I. B.:
  - Construction, etc., of tunnel under and across Eighteenth street, College Point, Borough of Queens:
    - Application 34
    - Completion of work 2671
    - Execution of contract 868
    - Grant of application 496
    - Mayor's approval 685
- Lakeville Holding and Development Company:
  - Construction, etc., of three bridges in Borough of Queens connecting private automobile parkway, as follows:
    - (a) over and across Clinton avenue, south of Marvin road;
    - (b) over and across Little Neck road, leading from Little Neck road to Floral Park;
    - (c) over and across Alley road, leading from Queens to West Alley road.
      - Applications 2259
      - Grant of consent 2886
      - Mayor's approval 4260
      - Public hearing 2675, 2886
- Linde Estate, F. C.:
  - Removal of steam pipe connecting premises northeast corner of Beach and Hudson streets with premises southeast corner of Beach and Greenwich streets, Manhattan:
    - Consent granted by Board of Aldermen, revocation of 2021
    - Mayor's approval 2248
- V. Loewer's Gambrinus Brewing Company:
  - Construction, etc., of iron pipe under West Forty-first street, Manhattan:
    - Application 228
    - Commencement of work 1216

PAGE
Completion of work 1484
Execution of contract 902
Grant of application 505
Mayor's approval 685
Long Island Railroad Company:
Consent to construction of station platforms at Railroad avenue, Borough of Brooklyn, and Union Court and Woodhaven, Borough of Queens:
Application 1863
Franchise to use subsurface of Atlantic avenue, and the streets crossing the subsurface freight terminal at Atlantic and Flatbush avenues, Brooklyn:
Grant of franchise and amendments thereto 692, 912, 1189, 1484, 1664, 1877
Maintenance of switch in Range avenue, Creedmoor, Borough of Queens:
Rescission of resolution relative to collection of compensation for past use and occupation 1870
Malatesta, J. B.—
Construction, etc., of narrow-gauge railroad track from the easterly side of White Plains road, at Boston road, etc., to Bronx boulevard and to Burke street, The Bronx:
Application 2746
Grant of consent 2982
Mayor's approval 4260
Temporary permit to lay railroad track at junction of Boston road, White Plains road and Astor avenue, The Bronx:
Application 2746
Grant of consent 2982
Mayor's approval 4260
Manhattan Bridge Service Company:
Franchise to construct, etc., street surface railway from intersection of the Bowery and Canal street to the Manhattan Bridge, over said bridge and approaches to Flatbush avenue and Fulton street, Brooklyn:
Designation of newspapers 4261
Petition 2022
Preliminary public hearing 2933
Manhattan Bridge Three-Cent Line:
Franchise to construct, etc., a street surface railway from the Flatbush avenue station of the Long Island Railroad Company, in Brooklyn, along various streets and avenues to Manhattan Bridge, across said bridge and its approaches to the Desbrosses Street Ferry, North River, Manhattan:
Report of Bureau of Franchises relative to form of contract and grant of franchise 2934
Manhattan Elevated Railway Company:
Protest against additional tracks 230
Discontinuance of spur tracks on East Forty-second street 33, 234
Mason & Hanger Company:
Installation, etc., of compressed air line for distribution of power to certain shafts used in construction of northerly section of City tunnel of Catskill aqueduct:
Application 2978
Grant of consent 2978
Mayor's approval 4260
Metropolitan Street Railway Company, lessee of New York and Harlem Railroad Company:
Right to operate over new Madison Avenue Bridge:
Mayor's approval 484
Revocation of consent granted by Department of Public Parks .. 267
Nassau Electric Railroad Company:
Construction, etc., of street surface railway loop upon Flatbush, Fourth and Atlantic avenues, Brooklyn:
Designation of newspapers 483, 2657

PAGE
Execution of contract ... 1472
Grant of franchise ... 839
Mayor's approval ... 1055
Proposed form of contract ... 201
Public hearing ... 213, 839
Agreement with Brooklyn City Railroad Company and Brooklyn Heights Railroad Company to use certain tracks on Flatbush avenue ... 846, 2251
Form of agreement, approval of ... 201, 839
Form of supplementary agreement, approval of ... 1862, 2037, 2251
Mayor's approval ... 4260
Public hearing on supplementary agreements ... 2251
Supplementary agreement:
Approval of ... 1862, 2037, 2251
Acceptance of ... 2875
Public hearing on ... 2251, 2875
Construction, etc., of street surface railway upon Georgia avenue, from its intersection with Liberty avenue to the northerly side of Atlantic avenue, Brooklyn:
Consents of abutting property owners filed ... 2022
Designation of newspapers ... 483
Grant of franchise ... 831
Mayor's approval ... 1055
Proposed form of contract ... 34, 44, 219
Public hearing on ... 44, 228, 831

New York and Long Island Traction Company:
Operation of second track in Fourth Ward, Borough of Queens:
Communication from Public Service Commission ... 251
New York and North Shore Traction Company:
Extension of time to complete and place in operation railway on Broadway, Flushing:
Execution of agreement ... 683
Grant of consent ... 56
Mayor's approval ... 213
Modification of contract granting franchise to construct, etc., railway from Flushing to Bayside:
Designation of newspapers ... 502, 1191
Execution of agreement ... 2931
Final public hearing ... 1052
Grant of franchise ... 1662
Mayor's approval ... 1869
Petition ... 501
Preliminary hearing ... 685, 1049
Proposed form of contract ... 1049

New York and Queens County Railway Company:
Construction, etc., of double-track railway on portion of route between Flushing and College Point:
Extension of time to accept franchise ... 683, 902
Report of Franchise Committee in re acceptance of franchise.. 518
New York and Richmond Gas Company:
Franchise to lay mains and supply gas to public and private consumers in Fifth Ward, Borough of Richmond:
Communication from Company relative to proposed form of contract ... 235
Denial of petition ... 509, 683, 867, 1055

New York-Cahill Telharmonic Company:
Construction, etc., of electric wires in streets of City for distributing music electrically:
Designation of newspapers ... 213
Execution of contract ... 1053
Final public hearing ... 56, 674
Grant of franchise ... 674
Mayor's approval ... 903
Proposed form of contract ... 49, 56

PAGE

- New York Central & Hudson River Railroad Company:
  - Change in location of existing overhead foot-bridge at Kingsbridge Station and to construct new span, etc.:
    - Application 1873
  - Extension of time to maintain and use spur track across Harlem River Terrace, north of Fordham road, The Bronx:
    - Application 2670
    - Grant of consent 2953
    - Mayor's approval 4260
  - Formulation of plan for future operation of trains on west side of the City:
    - Consideration of plan 1372, 1485, 1661, 1879
    - Merchants' Association et al., communications from, relative to approval of the plan submitted 1372, 1484, 1485, 1879
    - Reports of Commissioner of Docks 525, 914, 1057, 1262, 1371
    - Report of Committee of Board 1240, 1371
    - Reports of Consulting Engineers 1244, 1265, 1371
  - Franchise to construct, etc., temporary spur track across East Two Hundred and Forty-first street, west of First street, The Bronx:
    - Execution of contract 29
  - Laying branch or turnout across northwesterly corner of Twelfth avenue to connect with pier at foot of West Fifty-ninth street, Manhattan:
    - Amendment of grant 702
    - Application 45
    - Completion of work 1482
    - Execution of contract 1190
    - Grant of consent 555
    - Mayor's approval 1055
  - Rearrangement of tracks, switches, etc., at West Thirty-third street and Eleventh avenue, Manhattan:
    - Application 45
    - Execution of contract 1689
    - Grant of consent 519, 914, 1057, 1275
    - Mayor's approval 1477
    - Public hearing 522, 555
  - Taxes due City of New York for use and occupation of land west of Eleventh avenue, Sixtieth to Seventy-second streets, Manhattan:
    - Communication from Corporation Counsel 2044, 2291, 2459, 2724, 2760, 2994, 3152
    - Communication from Eleventh Avenue Track Removal Association 1070, 2994
    - Report of Comptroller 1400
- New York City Interborough Railway Company·
  - Agreement with Union Railway Company in re use of tracks on Southern Boulevard 2209
  - Franchises to construct, etc., extensions, viz.:
    - (a) from intersection of East One Hundred and Forty-ninth street and St. Ann's avenue, along East One Hundred and Forty-ninth street to Southern boulevard to Leggett avenue, The Bronx;
    - (b) from intersection of West One Hundred and Forty-fifth street and Lenox avenue, along West One Hundred and Forty-fifth street to Broadway, Manhattan;
    - (c) from intersection of Dongan street and Intervale street, along Dongan street, Stebbins avenue, East One Hundred and Sixty-third street, Washington and Elton avenues, to intersection of Elton avenue and One Hundred and Sixty-first street, The Bronx;
  - Agreements with Southern Boulevard Railroad Company and Union Railway Company in re interchange of transfers 2240, 2897

PAGE
Designation of newspapers 1476, 4260
Final public hearing 2908, 2919, 2929
Petition 1370
Preliminary public hearing 2209, 2897
Proposed forms of contracts 2209, 2897
Extension from intersection of Southern boulevard and East One Hundred and Eighty-ninth street, upon Southern boulevard to Pelham avenue, The Bronx.
Designation of newspapers 1476
Petition 1370
Preliminary hearing 1371, 1664
Withdrawal of petition 2209
Non-operation of railway on One Hundred and Forty-ninth street, Manhattan:
Communication from President of the Southern Boulevard Railway Company 233
New York Dock Railway Company:
Construction, etc., of railway tracks across Baltic, Bowne and Furman streets, Brooklyn:
Denial of petition 903
Designation of newspapers 213
Public hearing on petition 32, 671
New York Edison Company:
Installation of additional ducts in bridge over East Thirty-ninth street connecting power stations on the east side of First avenue, Manhattan.
Application 2670
Grant of consent 2951
Mayor's approval 4260
New York Life Insurance Company:
Continuance of maintenance of certain pipes under and across Lafayette street, Manhattan:
Execution of contract 692
New York Magnaphone and Music Company:
Franchise to construct, etc., electric wires, with necessary branches and connections, under and along streets, avenues and public places within The City of New York, for purpose of distributing music, etc., electrically:
Application 2929
Designation of newspapers 4261
Public hearing 2929
New York, New Haven and Hartford Railroad Company—Harlem River and Portchester Railroad Company:
Application for cancellation of existing bond under contract for six-tracking the Harlem River and Portchester Railroad, and substitution of bond in a less amount 1217, 2667
Cancellation of bond, etc. 2667, 4261
Completion of work under agreement with company with exception of two foot bridges at Lincoln and Forest avenues, The Bronx 1217, 2667
Construction, etc., of three catenary bridges along West Farms road, The Bronx, to support wires necessitated by changing motive power from steam to electricity:
Application 1879
Grant of consent 4272
Grant of certain lands in Bronx and Pelham Parkway, Chapter 670, Laws of 1905:
Completion of City's share of work 1218
New York Post-Graduate Medical School and Hospital:
Permission to install, etc., conduit across Twentieth street, Manhattan, for conveying electric current between Hospital and Nurses' Home:
Application 1484
Execution of Contract 2020
Grant of Consent 1690
Mayor's approval 1869

PAGE

New York Telephone Company:
  Amendment of offer submitted in 1906 in re telephone service for City:
    Communication from Company 231
    Report of Franchise Bureau relative to suit of the City vs. the Empire City Subway Company 1277
New York, Westchester and Boston Railway Company:
Amendments and modifications of Ordinance of August 2, 1904, viz.:
  (A) Extension of time for completion of railroad between One Hundred and Seventy-fourth street and northerly boundary line of City, etc.:
    Designation of newspapers 1191, 1993, 2248
    Final public hearing 2005
    Form of contract 1994
    Grant of modifications 2877
    Mayor's approval 4260
    North Side Board of Trade, communication from 2242
    Petition 1061
    Preliminary public hearing 1062, 1664
  (B) Change of motive power, changes in routes of main and branch lines, connection with route of the Interborough Rapid Transit Company and increased width of superstructures:
    Designation of newspapers 1993, 2248
    Final public hearing 2005, 2877
    Grant of petitions 2877
    Mayor's approval 4260
    Petition 1866
    Preliminary public hearing 1869, 1993
O'Brien Construction Company, The—
  Temporary permit to lay track across Adams street, The Bronx:
    Grant of consent 2746
Fred. Opperman, Jr., Brewing Company:
  Continuance to maintain and use a conduit under and along East 45th street, Manhattan:
    Compensation for past use and occupation 1698, 4263
    Grant of consent 510
Pelham Bay Park, additional transit facilities in:
    Amendment of section 191 of Railroad Law 281, 496
    Removal of railroad tracks 61
Pelham Park Railroad Company (see City Island Railroad Company and Pelham Bay Park Railroad Company):
Pfizer, Charles & Co.:
    Construction, etc., of pipe under and across Gerry street, west of Harrison street, Brooklyn:
    Application 1193
    Execution of contract 2019
    Grant by Board of Aldermen, rescission of 1698
    Grant of consent 1693
    Mayor's approval 1869
Postal Telegraph Cable Company:
  Construction, etc., of conduits, from corner of Canal and Chrystie streets, Manhattan, across Manhattan Bridge, and through Boroughs of Brooklyn and Queens to beach at Far Rockaway:
    Amended petition 249, 562
    Designation of newspapers 484
    Proposed form of contract 855, 1222
    Public hearing 251, 565, 855
    Withdrawal of previous petitions 249, 562
Queens Borough Street Railway Company:
  Franchise to construct, etc., street surface railway upon and along Van Alst avenue, from Franklin street to Winthrop avenue, First Ward, Borough of Queens:

PAGE

- Report of Bureau of Franchises in re history of petition and tentative approval of form of contract, 2967
- Rapid Transit Railways (see Rapid Transit matters):
- Richmond Light and Railroad Company:
  - Change in line of route in vicinity of Fort Wadsworth, Borough of Richmond:
    - Amended petition, 235
    - Application for temporary permit, 1121
    - Contract:
      - Acceptance of by Railroad Company, 1482, 1666
      - Amendment of, 1198, 1666
      - Proposed, 1198, 1666
    - Designation of newspapers, 484, 1476
    - Final public hearing, 1120, 1677, 2193
    - Grant of franchise, 2193
    - Mayor's approval, 2656
    - Preliminary public hearing, 236, 856
    - Rescission of resolution fixing date for public hearing on petition, 33
  - Change in certain routes, and extensions of same in vicinity of St. George, Borough of Richmond:
    - Execution of contract, 2666
    - Extension of time to accept franchise, 229
    - Grant of franchise, 1463
    - Mayor's approval, 1677
    - Proposed form of contract, 857
    - Public hearing, 867, 1463
- Riverside Light and Power Company, The—
  - Franchise to construct, etc., conduits for supplying electricity for light and power within the district bounded by the marginal street and 12th avenue, 134th and 129th streets, Manhattan:
    - Designation of newspapers, 2656
    - Petition, 2025
    - Power of Board to grand franchise, 2886
    - Preliminary public hearing, 2248, 2881
    - Protest of Consolidated Telegraph and Electrical Subway Company, 2251, 2881, 2886
- Rockwood & Company:
  - Construction, etc., of platform scale within easterly sidewalk lines of Waverly avenue, north of Park avenue, Brooklyn:
    - Application, 4263
    - Grant of consent, 4263
- Rupert, Jacob and George Ehret:
  - Joint application to continue to maintain, etc., pipes on East 93d street and across Avenue A, to East River, Manhattan:
    - Execution of contract, 919
    - Grant of application, 253
    - Mayor's approval, 912
    - Rescission of grant by Board of Aldermen, 266
- Schwarzchild & Sulzberger Company—
  - Permission to place beef cars on existing switch opposite Gansevoort street, during certain hours of the day:
    - Application, 2025
    - Authority of Board to grant consent, 2665, 4276
    - Petition denied, 4276
- Second Avenue Railroad Company:
  - Abandonment of certain unused tracks and franchises:
    - Abandonment proceedings by Railroad Company, matter of, 45, 48, 514, 685, 1686, 1861, 2655
    - Annulment of agreement by Park Department for use of railway tracks crossing Central Park, 200
- Section 242 of Charter, amendment of, 57, 234

PAGE

- Shannon Company, David:
  - Maintenance of unauthorized pipe on West 40th street, Manhattan:
    - Application ... 1060
    - Execution of contract ... 2019
    - Grant of Consent ... 1211
    - Mayor's approval ... 1476
    - Payment of compensation for past use and occupation ... 2672
    - Removal of pipe by City ... 252, 1216
- Southern Boulevard Railroad Company:
  - Agreement with New York City Interborough Railway Company relative to use of tracks on Southern Boulevard ... 2240
  - Franchises to construct, maintain, etc., extensions to existing railway, viz.:
    - (a) From intersection of Southern Boulevard and East 149th street, The Bronx, to and across bridge over the Harlem River to West 145th street, Manhattan, and along said street to Broadway.
      - Petition withdrawn ... 2242
    - (b) On Southern Boulevard from Boston Road to Pelham avenue, The Bronx.
      - Designation of newspapers ... 2248
      - Final public hearing ... 2036, 2867
      - Form of contract ... 2025
      - Grant of franchise ... 2867
      - Mayor's approval ... 4260
  - Non-operation of railway on 149th street, Manhattan:
    - Communication in response to criticism of New York City Interborough Railway Company ... 233
- South Shore Traction Company:
  - Extension of time to select and designate route in Jamaica:
    - Application for extension of time ... 31, 479, 682, 915, 990
    - Report of Franchise Committee ... 479, 914
  - Selection and designation of route in Jamaica:
    - Forfeiture of contract, public hearing relative to ... 483, 914, 989
    - Modification of route ... 31, 480, 916, 990
    - Report of Franchise Committee ... 479, 914
    - Revocation of franchise, communication from Citizens' Union relative to ... 480, 915
- Standard Varnish Works:
  - Permission to construct, etc., pipe line under Richmond Terrace, Elm Park, Borough of Richmond:
    - Application ... 2678
- Staten Island Rapid Transit Railway Company:
  - Extension of time to complete construction of railway track across Richmond terrace, 3rd Ward, Borough of Richmond:
    - Designation of newspapers ... 4261
    - Petition ... 2675
    - Preliminary public hearing ... 2931
- Stern & Sons, Inc., Joseph:
  - Continuance of maintenance of pipe under and across West Fortieth street, Manhattan:
    - Acceptance of agreement by City ... 1197
- Stern, Benjamin I.:
  - Compensation for use and occupation of unauthorized portion of a tunnel in West 22d street, Manhattan:
    - Settlement of claim ... 44, 503
- Third Avenue Bridge Company:
  - Extension of time for construction and completion of railway on East 59th and 60th streets, Manhattan:
    - Application ... 268
    - Withdrawal of application ... 523
  - Extension of time to commence operation of cars :
    - Application ... 1877

PAGE

Treasury Department, U. S. A.:
Maintenance, etc., of pneumatic tubes between Appraisers' Warehouse and new Custom House, Manhattan:
Notice of completion 31
Relocation of scale in driveway of the Appraisers' Warehouse across the easterly sidewalk of Washington street, Manhattan:
Application 1222
Grant of consent 1873
Tuttle & Bailey Manufacturing Company:
Installation, etc., of pipe line under and across North Tenth street, between Berry street and Wythe avenue, Brooklyn:
Application 4267
Grant of consent 4268
Company to furnish proof of authority for use of structure, etc. 4268
Twenty-eighth and Twenty-ninth streets Crosstown Railroad Company:
Franchise to construct, etc., street surface railway from 28th street and 7th avenue, along 7th avenue to 32nd street, etc., Manhattan:
Designation of newspapers 2657
Petition 2023
Preliminary public hearing 2243
Withdrawal of petition pending determination of definite plan 2950
Union Railway Company of New York City:
Agreement with New York City Interborough Railway Company for use of tracks on Southern Boulevard 2209
Extension along 167th street, and other streets, from Jerome to Westchester avenues, The Bronx:
Report relative to construction and operation of railway 30
Extension along St. Ann's avenue, from 3d avenue to the Southern Boulevard, The Bronx:
Consent of abutting property owners 913, 1064
Execution of contract 687
Extensions to existing system, viz.:
(a) On 155th street, from 8th avenue to Broadway, Manhattan:
Designation of newspapers 1055
Final public hearing 883, 1455, 1662, 1853
Grant of Franchise 1853
Mayor's approval 2019, 2931
Proposed form of contract 869, 875
Supplementary agreement 2023, 2672
(b) On Washington Bridge and 181st street, from Boscobel ave, The Bronx, to Broadway, Manhattan:
Designation of newspapers 1055
Final public hearing 893
Proposed form of contract 869, 884
Resolution fixing public hearing rescinded 1483
(c) On Broadway from 230th to 225th streets, Boroughs of Manhattan and The Bronx:
Consents of abutting property owners 4272
Designation of newspapers 1055
Final public hearing 901
Grant of franchise 1455
Mayor's approval 1677, 2931
Proposed form of contract 869, 893
Supplementary agreement 2023, 2672
Operation of railway upon Madison avenue Bridge and viaducts leading thereto:
Designation of newspapers 483
Final public hearing 248, 847
Grant of franchise 847
Mayor's approval 1055, 2931
Proposed form of contract 236, 847
Supplementary agreement 2023, 2672

PAGE

- Webber, Richard:
  - Consent to continue to maintain, etc., pipe under and across East 120th street, Manhattan:
    - Execution of agreement 902
    - Mayor's approval 32
- Wesel Manufacturing Company, F.:
  - Construction, etc., of pipe under and across Henry street, Brooklyn:
    - Notice of completion of work 268
- Western Electric Company:
  - Consent to continue to maintain, etc., tunnel under and across Bank street, Manhattan:
    - Execution of contract 682
    - Mayor's approval 32
- Wolfe, John, Estate of:
  - Maintenance of pipe under and across William street, between Liberty and Maiden lane, Manhattan:
    - Consent, Rescission of 1879
    - Mayor's approval 2019

Fresh Meats, standard specifications for purchase of 68, 129

Fruits, standard specifications for purchase of 1082

Fulton Street Board of Trade, Brooklyn, communication from, relative to transit facilities 2046

G.

Gair Company, Robert—
- Construction, etc., of tunnel under and across Washington street, between Plymouth street and Water street, Brooklyn:
  - Execution of contract 1065
  - Grant of consent 213
  - Mayor's approval 484
  - Rescission of grant by Board of Aldermen 218
- Construction, etc., of two tunnels under Washington and Water streets and Washington and Front streets, Brooklyn:
  - Acceptance of grant 234
  - Mayor's approval 32

Gales, Joseph, communication from, relative to transportation facilities 2085

Gardener, in charge, and Gardener, establishment of positions in Department of Parks, all boroughs 2459, 3115, 4319

General fund, City of New York, transfer of appropriations:
- From 3247
- To 787, 1106

General Pension system, heads of all departments to furnish Committee on Standardization of Salaries and Grades with statistical and other information adequate for consideration of a 1920

Germania Real Estate and Improvement Company:
- Claim for damages against The City of New York for use of water mains 2847
- Purchase by City of water pipes and appurtenances 2810

Gilman, Robbins, communication from relative to keeping Evening Recreation Centers open during summer months 2343

Gimbel Brothers—
- Unauthorized construction of bridge at southwest corner of Thirty-third street and Broadway, Manhattan:
  - Communication from President of Manhattan 911
  - Grant of consent 2261
  - Mayor's approval 2656
  - Petition for use of structure 1197
- Extension of time to accept grant:
  - Petition 4272

Glen Morris Civic League, communication from, relative to transportation facilities 1294

Gosman street, etc., First Ward, Borough of Queens, exchange of property owned by City for property owned by Pennsylvania Tunnel and Terminal Railroad Company 385, 625

PAGE

- Gotham Electric Service Company—
  - Operation of a call and signal system for messengers in two sections of the Borough of Manhattan:
    - Acceptance of contract ... 684
    - Non-compliance with terms of contract ... 684, 886, 1065
    - Petition denied ... 1192, 1483
- Grade crossings, Borough of Richmond, appropriation for elimination of.... 4342
- Grade Crossings, discontinuance and change of, in The Bronx:
  - Awards for damages to lot 9, block 2881 ... 1292
  - Awards for damages to lot 211, block 2882 ... 1068
- Grade crossing of Long Island Railroad at Thompson avenue, Borough of Queens, elimination of ... 994, 1127
- Grand Boulevard and Concourse, The Bronx:
  - Connection with the main driveway on Mosholu parkway... 1888, 3407
  - Planting trees on ... 1888, 3312
  - Transverse road at 170th and 174th streets, construction of ... 1585, 2070
- Grand Central Yard, Manhattan, appropriation for City's share of expense of building viaducts between 45th and 56th streets ... 2060
- Grand Jury—
  - Kings County:
    - Presentment relative to improvements in the Brooklyn Disciplinary Training Schools for Boys ... 2045
  - Queens County:
    - Presentment relative to establishment of paid Fire Department in all sections of the Borough of Queens ... 1905
  - Richmond County:
    - Report of inspection of Richmond County Jail and necessity for appropriation for construction of wall around jail property ... 526
    - Request for establishment of Grand Jury Stenographer and Interpreter ... 1091
- Grand Street Board of Trade, Brooklyn, communication from urging operation of ferry from Grand street, Manhattan, to Grand street, Brooklyn 2600
- Gravesend Board of Trade, Brooklyn, communication from relative to erection of a new fire house at Gravesend ... 1944
- Greenhut-Siegel Cooper Co.—
  - Construction, etc., of conduit under and across 6th avenue between 18th and 19th streets, Manhattan:
    - Application ... 2670
    - Grant of consent ... 2692
    - Mayor's approval ... 4260
- Greenpoint Taxpayers' and Citizens' Association, communication from relative to Greenpoint Emergency Hospital ... 148, 388, 539, 592, 1357
- Guindon, William, communication from relative to patented device for ventilating subways ... 69
- Gulick, John C., communication from relative to discontinuance of spur track on East Forty-second street, Manhattan, operated by Manhattan Elevated Railroad Company ... 33, 234

H.

- Habighorst. Ernest J., communication from relative to transportation facilities ... 2765
- Hagerty, John J., claim for laying water mains in the Borough of Queens.. 1515
- Hall of Records, Manhattan:
  - Filing cases, etc., and alterations to electric lighting system in Room 11, approval of specifications, etc... 2604
  - Steel filing cases in office of County Clerk:
    - Installation of ... 127, 1126, 1701, 2764, 2765, 4307, 4432
    - Remission of overtime on contract... 1293, 2690
- Hardman, Peck & Company—
  - Installation, etc., of pipe under and across West 49th street, Manhattan:
    - Cancellation of bond by Comptroller... 2957
    - Consent granted by Board of Aldermen, revocation of... 1698, 2957
    - Mayor's approval ... 4260
    - Removal of pipe by company ... 2261

PAGE

- Har Moriah Hospital, communication from, relative to compensation for care of patients admitted and accepted as public charges by the Department of Public Charities 3235
- **Harris, M., communication from relative to transit facilities** 2080
- Hart's Island, acquisition of land on southern end (Hunter Estate) 2078
- Haviland, C. Augustus, communication from, relative to transportation facilities 3303
- **Hawes, Gilbert Ray, communication from relative to registering titles to property acquired by The City of New York, under the Torrens System of Land Titles registration** 371
- Health, Department of—
  - Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
    - Architect's services in preparing plans and specifications for glass and iron partitions in office building in Brooklyn 1883, 1970
    - Kingston Avenue Hospital, Brooklyn:
      - Architect's services for preparing plans, etc., for brick isolation pavilion and supervising construction 1387
    - Tuberculosis Sanatorium, Otisville, N. Y.:
      - Electric supplies and materials 2145
      - Heating system 995
      - Lumber, etc., for construction work 1551
      - Portland cement 69, 409
    - Willard Parker Hospital:
      - Construction of north wing and central portion of Measles Pavilion 2048
  - Corporate stock authorizations and amendments:
    - Construction of new buildings, etc. 1489, 2592
    - Hospital for Contagious Diseases in the Borough of The Bronx, construction of 3418
    - Hospital for Contagious Diseases in the Borough of Queens, construction of 3418
    - Kingston Avenue Hospital, Brooklyn:
      - Kitchen building, help's dining room and dormitories, construction of 3417
      - Sewer lines and outside tanks, construction of 3417
    - Riverside Hospital, The Bronx:
      - Boiler house and tunnel system, construction of 3415
      - Concrete pavilion for tuberculosis patients, construction of 3416
      - Concrete pavilion for use as a hospital for venereal diseases, construction of 3416
      - Dormitory for female help, construction of 3416
      - Improving roads and new roads 3417
      - Lighting fixtures and other equipment for operation and maintenance of two new concrete pavilions 3417
      - Nurses' home, construction of an extension to 3416
    - Tuberculosis Sanatorium:
      - Erection of uildings, etc. 1489, 2592, 2599
      - Gravity water system, construction of, including completion of reservoir 3418
      - Shacks and other structures, construction of, by departmental labor 3418
    - Willard Parker and Reception Hospitals:
      - Additional wing for measles pavilion 2052
      - Pavilion for measles patients, construction of 3419
      - Underground tunnel, construction of 3415
  - Corporate stock budget 3414
  - Chief Office in Manhattan:
    - Acquisition of site and building for 748
  - Building on Centre and Walker streets, offer of owner to rent 2741
  - Fire protection equipment and apparatus and maintenance of systems:
    - Issue of special revenue bonds for 2077, 2687
    - Schedule of salaries and wages for fund 2689
  - Hospital for treatment of venereal diseases, appropriation for erection of 1489, 1701

PAGE
Riverside Hospital, North Brother Island:
  Equipment of concrete pavilions for Tuberculosis patients, appropriation for purchase of 2045
  Replacing present steam plant, appropriation for 1701
Salaries, establishment of positions and grades:
  Assistant Director, Bacteriological Laboratories 1091
  Carpenter 370, 439
  Chief Clerk 125, 526, 3099
  Cleaner 370
  Clerk 526, 3099
  Hospital Clerk 2148
  Stableman 370
  Stationary Engineer 712, 1081
  Stenographer and Typewriter 2286, 3086
Salaries, request for establishment of various grades and positions, filed in 1910 1408
Schedule of salaries and wages, Budget, modification of:
  No. 295 328, 2435, 2818
  No. 296 328, 603, 1302, 2435, 2818
  No. 297 328
  No. 305 328, 2768
  No. 306 2732, 2818
  No. 312 328, 603, 760, 1138, 1896, 2818
  No. 313 328
  No. 322 328, 603, 1302
  No. 332 2619
  No. 333 328, 603, 769, 1138, 1618, 1826, 2106, 3481
  No. 345 328, 603, 1427, 1618, 1949, 2619, 2818, 3481
  No. 346 328
  No. 355 328, 603, 1949, 2818, 3024
  No. 356 328
  No. 364 603, 1302, 2818
  No. 368 603, 1138, 2435, 3024
  No. 374 603, 1302, 2435, 2818
  Nos. 385 and 386 3024
  No. 391 603
  Nos. 397 and 414 2768
  No. 437 603, 1427, 2818
Schedules of Salaries and Wages, non-Budgetary, approval of:
  Corporate Stock Fund, Construction Force 346, 1784
  Special and Trust Funds, Laboratories, Research and Vaccine, Anti-Toxin and Vaccine Force 346, 1784, 2325, 3168
Supervising Nurses, Division of Communicable Diseases, matter of increasing salaries of 1133, 1294
Transfers within:
  Appropriation for 1906 593, 594
  Appropriation for 1907 787, 1106
  Appropriation for 1909 596
  Appropriation for 1910 741, 4279
  Appropriation for 1911
    337, 338, 610, 762, 923, 1302, 1429, 1620, 1765, 2278, 2438, 2751, 2770, 2824, 3025
  Disapproval of request for transfer within appropriation for 1910 930
Tuberculosis Day Camps on old ferryboats "Middletown" and "Susquehanna," issue of special revenue bonds for purchase of food supplies for 1883, 1983
Tuberculosis patients, increase in hospital accommodations for
  2633, 2683, 2697, 2764, 2847, 2995, 3153
Tuberculosis Sanatorium, Otisville, New York:
  Payment of wages of employees and purchase of supplies:
    Issue of special revenue bonds for 1943, 2346
    Schedule for fund 2347
  Purchase of plot of ground on Bloomingberg Road for addition to Sanatorium 2682
Hearn & Son, James A., communication from relative to transportation facilities 2080

PAGE
Heermance Storage and Refrigerating Company—
Construction, etc., of conduits under Duane, Hudson, Reade, Chambers, Greenwich and Washington streets, Manhattan:
Execution of contract 231
Hegemann, Daniel V. B., communication from relative to additional hospital facilities for Tuberculosis patients 2847
Henderson, George M., purchase by City of water mains and appurtenances of 2810
Henschel, Albert E., communication from relative to ventilation of subways 2464
Highway bridges in The Bronx (see President of the Borough of The Bronx).
Hilton, John T., petition for cancellation of judgment 2682
Hobley, Alfred T., claim for defending actions brought against him in his official capacity as Sheriff of Kings County 2041
Hoffman, H. T., offer of sale of property on Jerome avenue, Avenue Z and East 25th street, Brooklyn 2085
Hollman, Henry, communication from, protesting third-tracking of lines by Manhattan Elevated Railroad Company 230
Homestead Civic Association of Woodhaven, communications from relative to—
Acquisition of East River Park for playground purposes 1702
Transit facilities 1889
Hooker, William H., and Frank E. Roe, petition of, relative to fixing of salaries as Clerks in office of County Clerk, Richmond County 1511
Hoppenhauer, Lawrence J., communication from, relative to transportation facilities 2192
Hospitals, Bellevue and Allied—
Approval of plans, specifications and estimates of cost contracts chargeable to corporate stock:
Bellevue Hospital, grading grounds for tennis court 1968
New Bellevue:
Pathological buildings:
Furniture, etc. 574
Tree guards and gratings in front of Pavilions A and B 3230
Pavilions L and M, construction of 286, 1132, 1294, 1747
Planting grounds 286, 1115
Fordham Hospital:
Workshop within grounds, construction of 624
Harlem Hospital:
Fire alarm system, installing 3261
Flooring on balconies 2765, 4305
Bellevue Hospital:
Ambulance No. 6, claim of Charles Barry for repairing 1517
Converting ward 31 into an isolation ward, special revenue bonds for 748, 1047, 1073
Engineers and mechanic for operation of coal station, boiler house, etc., in New Bellevue:
Issue of special revenue bonds for wages 748, 1142
Schedule for fund 4397
Hudson River Iron Works Co., acceptance of bid of, for tree guards and gratings 3230
Medical Library, use of by physicians and public 576
Nurses, additional:
Issue of special revenue bonds 1883, 2329
Schedule for fund 2331
Protest of Architects against changes in specifications for Pavilions L and M demanded by Department of Water Supply, Gas and Electricity 1294
Trained Nurses and Hospital Attendants for Alcoholic and Prison Wards:
Issue of special revenue bonds for salaries of 1070, 1715, 1774
Schedule for fund 1775
Corporate stock authorizations and amendments:
Bellevue Hospital (new):
Correction in date of resolution authorizing corporate stock for equipment of Pathological Department and Men's Dormitory, New Bellevue 351

PAGE

    - Pavilions A and B, erection of roof ward and thirteen additional small balconies on 3421
    - Pavilions I and K, erection of, including Architects' fees 3420
  - Fordham Hospital:
    - Roof Ward, construction of 3421
  - Gouverneur Hospital:
    - Children's ward, construction of 3421
    - Dispensary (new), construction of, including Architects' fees 3420
  - Harlem Hospital:
    - Concrete flooring for six balconies 1310, 2765, 4310
    - Erection of power house, installation of electric lighting plant, laundry equipment, ambulance building, etc., amendment of corporate stock resolution 1310
    - Hospital fund for new building, rescinding amount previously released from corporate stock authorization for 1309
    - Nurses' residence, construction of, including Architects' fees 3420
    - Ward wing (additional), construction of 3420
- Corporate stock budget 3419
- Corporate stock estimate for 1911-1915 68, 1944
- Fordham Hospital, appropriation for additional ward space for 2085
- Gouverneur Hospital:
  - Dispensary, assignment of plot of ground east of hospital as a site for a building for 2163
  - New out-patient department, appropriation for preliminary expenses 992
  - Ward over Ambulance station, appropriation for construction of 2085
- Salaries, establishment of position and grades:
  - Assistant Alienist 125, 588
  - Assistant Resident Physician 115
  - Barber 115
  - Chief Investigator 1071, 2303
  - Clerk 125, 588
  - Contract Clerk 1071, 2303
  - Employment Agent 1071, 2303
  - Hospital Attendant 749, 1324
  - Hospital Helper 115
  - Housekeeper 125, 588
  - Instructor in Anaesthesia 568, 960
  - Laundress 115
  - Orderly 115
  - Resident Obstetrician 1700, 2186
  - Resident Physician 115, 125, 588
  - Seamstress 115
  - Stenographer and Tpyewriter 115
  - Supervising Engineer 1071, 2303
  - Waiter 115
  - Waitress 115
  - Wardmaid 115
- Schedules of salaries and wages, Budget, modification of:
  - No. 212 528, 939, 1332
  - Nos. 213 and 214 528, 939
  - No. 215 528, 939, 1332, 3005
  - No. 216 528
  - No. 217 528, 939, 1332. 3005
  - No. 218 528, 939, 1332
  - No. 219 525, 939, 3005
  - No. 221 3005
  - No. 226 803, 939, 3005
  - No. 227 939
  - Nos. 228 and 229 528
  - Nos. 231 and 232 528, 939
  - No. 233 939
  - No. 235 528, 1332
  - No. 236 528, 939

PAGE

Schedules of salaries and wages, non-Budgetary, approval and revision of:
  Corporate Stock Fund, Construction Force 347
Standard specifications for purchase of meat in carcass form for Fordham, Gouverneur and Harlem Hospitals, exemption from use of 1378, 2127
Training School for Midwives:
  Issue of special revenue bonds for establishment of 1488, 2345, 2785
  Schedule of salaries for fund 2786
Transfers within:
  Appropriation 1907 65
  Appropriation 1910 66, 150, 283, 541, 1103, 2276
  Appropriation 1911 538, 539, 803, 1332, 3008
Hospitals:
  City Hospital (see Department of Public Charities).
  Coney Island Hospital (see Department of Public Charities).
  Greenpoint Emergency Hospital (see Department of Public Charities).
  Kings County Hospital (see Department of Public Charities).
  Metropolitan Hospital (see Department of Public Charities).
  New York City Children's Hospital (see Department of Public Charities).
  Sea View Hospital, Staten Island (see Department of Public Charities).
  Tuberculosis Sanatorium, Otisville, New York (see Department of Health).
Hospital for treatment of venereal diseases, communication from New York Obstetrical Society urging appropriation for establishment of 1701
Hotel Association of New York, communication from, relative to transit facilities 2291
Hudson-Fulton Celebration, issue of special revenue bonds for expenses contingent to part taken by the City in 348
Huebner, Anton, communication from, relative to transit facilities 2291
Hupfel's Sons, A.—
  Construction, etc., of a two-inch water pipe under St. Anns avenue, between East One Hundred and Fifty-ninth and One Hundred and Sixty-first streets, The Bronx:
    Application 4267
  Permission to lay pipe connecting premises on One Hundred and Fifty-eighth, One Hundred and Fifty-ninth streets, St. Anns and Brook avenues, The Bronx:
    Application 203

I.

Imboden, D. C., communication from, relative to transit facilities 714
Improvement Associations of the Fourth Ward, Borough of Queens, communication from, relative to transportation facilities 569, 1134, 2741
Independent Democratic Organization of the Third Assembly District, Borough of Queens, communication from, relative to the inadequate water supply in the Ridgewood Heights section of the Borough of Queens 2765
Inebriety, Board of:
  Appointment of Committee to report on establishment of 993
  Board, appointment of 2466, 3302
  Committee, report of 2340, 2464
  Communications relative to work 2067, 2741
Inspectors on Public Improvements throughout City, regrading and reclassifying 1091
Interborough Rapid Transit Company—
  Lease with The City of New York relative to operation of subways:
    Cancellation of, communication relative to 2742
    Modification of, protest against 1945
  Proposition relative to construction and operation of new subways, etc. (see Rapid Transit matters).
Interest on the City Debt, transfer from appropriation for 1911 1589, 1591
International Municipal Congress and Exposition, participation in by The City of New York 1770, 1807
Irving place, Manhattan, appropriation for extension of 4348

PAGE

J.

- Jamaica Bay improvement—
  - General improvement and development of Jamaica Bay, in Boroughs of Brooklyn and Queens, and general condition of the water front of the Boroughs of The Bronx, Brooklyn, Queens and Richmond (amendment of resolution authorizing issue of corporate stock) .. 3430
  - Preliminary work, etc., appropriation for 284, 656
- Jamaica Citizens' Association, communication from, relative to transportation facilities 1134
- Jamaica East End Civic Association, communication from urging appropriation for construction of addition to Public School No. 49, Jamaica, Borough of Queens 1888
- Janson, Albert, communication from, relative to transportation facilities .. 286
- Jay street connecting railway—
  - Construction, etc., of spur tracks across Jay, John, Pearl, Plymouth and Gold streets, Brooklyn:
    - Amendment of contract 230
    - Designation of newspapers 1869
    - Execution of contract 2929
    - Final public hearing 1686, 2202
    - Grant of Franchise 2202
    - Mayor's approval 2656
    - Proposed form of contract 19, 1677
- Jefferson Club of Brooklyn, communication from, relative to selection of site for Greenpoint Emergency Hospital 148, 388, 539, 592, 1357
- Jerome Park Reservoir:
  - Completion of easterly basin and installation of filtration plant, appropriation for 448, 1601, 1710, 1768, 1883
  - Land in easterly basin, City's right to sell 713
- Johnson, F. M., communication from, relative to transportation facilities .. 2192
- Joint District Council of New York City and vicinity, communication from, relative to increasing the compensation of a carpenter in the Bureau of Highways, Brooklyn 1701, 2309
- Jones, Edward H. Floyd, agreement with, relative to acquisition of property at Massepequa and Oyster Bay for purposes of water supply 126, 1023, 1491

K

- Kaplan, Rose and Kruer, Bertha, communication from, relative to additional hospital facilities for Tuberculosis patients 2633
- Keating Company, E. F.—
  - Maintenance of unauthorized pipe under Water street, Manhattan:
    - Payment for past use and occupation 2259, 4262
    - Removal of pipe by Borough President 2259, 4262
- Keenan Association, Patrick, communication from, relative to inadequate accommodations in Public School 39, The Bronx 86
- Kensington and Parkville Improvement League, Brooklyn, communications from, relative to:
  - Acquisition of a school site on Avenue C between East Third and Fourth streets, Brooklyn 993
  - Transportation facilities 2080
- Kiely, Daniel F., communication from, relative to purchase by City of the franchises, etc., of the South Shore Water Works Company of Staten Island 1702, 3129, 3156, 3470
- Kingman, E. S., communication from, in re salaries of Draftsmen in Bureau of Buildings, Dept. of Education 2286
- Kings Highway Board of Trade of Brooklyn, communication from, relative to transportation facilities 1072, 3129, 3156, 3470
- Kirkman & Son—
  - Construction, etc., of tunnel under Bridge street, Brooklyn:
    - Commencement of work 2036
    - Completion of work 2897
    - Execution of contract 63

PAGE

Kleinert Rubber Co., I. B.—
- Construction, etc., of tunnel under and across Eighteenth street, College Point, Borough of Queens:
  - Application 34
  - Completion of work 2671
  - Execution of contract 868
  - Grant of application 496
  - Mayor's approval 685

Knights of Labor, Order of, communication from, relative to regrading and reclassifying Inspectors of Public Improvement 1091

Kremp, August J., claim for salary as Plan Examiner in Bureau of Buildings, Borough of Queens 1710, 1779

L.

Laborers—
- Continuance of employment throughout the year, resolution of Board of Aldermen, relative to 1717
- Reclassification of, appointment of committee to confer with Civil Service Commission, etc. 1127

Labor laws, communication from Central Federated Union of Greater New York relative to observance of in employment of labor for construction of new subways 3020, 3142

Lakeville Holding and Development Company—
- Construction, etc., of three bridges in Borough of Queens, connecting private automobile parkway, as follows:
  - (a) over and across Clinton avenue, south of Marvin road;
  - (b) over and across Little Neck road, leading from Little Neck road to Floral Park;
  - (c) over and across Alley road, leading from Queens to West Alley road.
    - Applications 2259
    - Grant of consent 2886
    - Mayor's approval 4260
    - Public hearing 2675, 2886

Law Department—
- Brooklyn-Manhattan Rapid Transit Railroad indebtedness, amount which may be excluded in ascertaining power of the City to become otherwise indebted:
  - Form of resolution 83, 145
  - Petition to Supreme Court, etc. 290, 552
- Change of Grade Damage Commission for the Twenty-third and Twenty-fourth Wards:
  - Appropriation for payment of awards, interest and counsel fees.... 2759
  - Appropriation to pay experts employed to testify before.......... 1769, 3430
- Corporate stock estimate for 1911-1915.......... 284
- Discharge of sewage from Passaic valley into the New York Harbor, issue of special revenue bonds for payment of expenses of litigation with State of New Jersey.......... 2760, 3018
- Opinions of the Corporation Counsel relative to abandonment of certain unexercised rights and unused tracks and franchises by Second Avenue R. R. Co.......... 1861
  - Amendment of agreement and form of contract granting a franchise to the Nassau Electric Railroad Company to operate a street surface railway on Flatbush, 4th and Atlantic avenues, Brooklyn by substituting Brooklyn Heights Railroad Company for Brooklyn City Railroad Company, as party to agreement authorizing the use of tracks on Flatbush avenue by the Nassau Electric Railroad Company, etc.......... 201, 1862
  - Annulment of rights granted by Department of Public Parks to New York & Harlem Railroad Company or Metropolitan Street Railway Company, lessee, or Receivers of said company, to operate cars on Madison Avenue Bridge.......... 267
  - Authority to grant franchise to trustees of John Jacob Astor, to construct, etc., spur track across Exterior street, near Ferncliff place, Borough of The Bronx.......... 516

PAGE

City's right to sell land contained in easterly basin of Jerome Park Reservoir 713
Grant of application of New York Central & Hudson River Railroad Company for consent to a rearrangement of its tracks, etc., on Eleventh avenue, between Thirty-second and Thirty-fourth streets, Manhattan.......... 519
Grant of franchise to New York Central and Hudson River Railroad Company to operate spur tracks across Twelfth avenue, south of Sixtieth street, Manhattan, and payment by said company of expense incurred by City in removing railroad tracks on Twelfth avenue, between Fifty-eighth and Sixtieth streets. 555
Grant of franchise to Union Railway Company to operate a street railway over Madison Avenue Bridge.......... 240, 2672
Insertion of clause in contract, granting franchise to the New York City Interborough Railway Company to operate extensions in Manhattan and The Bronx, relative to interchange of transfers upon railways in the Borough of The Bronx.......... 2897
Taxes due City by New York Central and Hudson River Railroad Company on property west of Eleventh avenue, Sixtieth and Seventy-second streets, Manhattan....2044, 2291, 2459, 2724, 2760, 2994, 3152
Terms and conditions of contract granting a franchise to the New York and North Shore Traction Company to operate a street surface railway upon certain streets and avenues in the Borough of Queens 1050
Terms and conditions of contract granting a franchise to the New York Dock Railway Company to construct, etc., railroad tracks across Commerce, Bowne, Imlay, Joralemon and Baltic streets, Brooklyn 671
Terms and conditions of contract granting a franchise to the Richmond Light and Railroad Company for right to change certain of its routes and extend same in vicinity of St. George and Fort Wadsworth, Borough of Richmond.......... 858, 1201
Validity of franchise of the Brooklyn, Queens County and Suburban Railroad Company to operate a railway on Utica avenue from Church avenue to Avenue N, Brooklyn, under rights obtained from the Highway Commissioners of the former towns of Flatbush and Flatlands.......... 229
Salaries, request for the establishment of grades of positions filed in 1910 1407
Schedules of salaries, Budget, modification of No. 61.......... 2323
Transfers within:
  Appropriation for 1909 .... 921, 1911
  Appropriation for 1910 921
Lawson & Company, communication from, relative to transportation facilities 714
Leary, John, communication from, relative to proceeding by City to cancel its lease with the Interborough Rapid Transit Company 2742
Leubuscher, Albert L., communication from, relative to Financial Self-Management by Governments of public utilities.......... 1888, 4284
Lexington Avenue Subway, construction of (see Rapid Transit Railways).
Libby, Marion, communication from, relative to additional hospital facilities for tuberculosis patients.......... 2995
Libraries—
  Brooklyn Public Library:
    Approval of plans, etc., for foundation work on site of Central Library Building 2056
    Branch library at Auburn place and St. Edwards street, corporate stock for services of expert in connection with acquisition of title to property for 1069
  Carnegie Libraries:
    Corporate stock estimate for 1911-1915.......... 68, 3425
    Library sites, appropriation for acquisition of, viz.:
      Borough of Manhattan 3423
      Borough of The Bronx.......... 3423
      Borough of Brooklyn.......... 3424
      Borough of Queens.......... 3424

PAGE

  - Library in vicinity of One Hundred and Eighty-first street and Broadway, Manhattan, establishment of 1489, 1600
  - Medical Library in Bellevue Hospital, use of by physicians and the general public 576
  - Municipal Reference Library, establishment of 1346
  - New York Public Library:
    - Coal:
      - Approval of contract for furnishing 947
      - Issue of special revenue bonds for purchase 1488, 1917
    - Maintenance and expenses, appropriation for 4414
    - Schedule of wages for temporary employees 1635
    - Transfer within appropriation for 1910 153
- Licenses, Bureau of (see Mayoralty)—
- Licenses, Commissioner of—
  - Law and Complaint Clerk, establishment of position of 1293, 3116
  - Salaries, request for establishment of positions filed in 1910 1411
- Licensed Firemen and Oilers in City departments, increasing compensation of 1905, 2458, 2764, 3116
- Licenses to push cart peddlers, etc., in the Borough of The Bronx, opposition to issuing of, except in certain neighborhoods 1816
- Lillie, E. S., communication from, relative to additional hospital facilities for tuberculosis patients 2847
- Linde Estate, F. C.—
  - Removal of steam pipe connecting premises northeast corner of Beach and Hudson streets with premises southeast corner of Beach and Greenwich streets, Manhattan:
    - Consent granted by Board of Aldermen, revocation of 2021
    - Mayor's approval 2248
- Litigation with State of New Jersey in re discharge of sewage into New York Harbor 2760, 3018
- Livonia Avenue Subway Route, Brooklyn (see Rapid Transit Railways)—
- Lloyd, Mortimer, communication from relative to additional hospital facilities for tuberculosis patients 2995
- Local Improvements, affecting work under surface of streets, etc., unscientific methods of carrying out:
  - Report of Consulting Engineers 665, 722
- Local Needs Association of the East Side, Manhattan, communication from relative to temporary school structure under Williamsburg Bridge (Public school 98) 980
- V. Loewer's Gambrinus Brewing Company—
  - Construction, etc., of iron pipe under West Forty-first street, Manhattan:
    - Application 228
    - Commencement of work 1216
    - Completion of work 1484
    - Execution of contract 902
    - Grant of application 505
    - Mayor's approval 685
- Long Island Railroad Company—
  - Consent to construction of station platforms at Railroad avenue, Borough of Brooklyn, and Union Course and Woodhaven, Borough of Queens:
    - Application 1863
  - Franchise to use sub-surface of Atlantic avenue, and the streets crossing the sub-surface freight terminal at Atlantic and Flatbush avenues, Brooklyn:
    - Grant of franchise and amendments thereof 692, 912, 1189, 1484, 1664, 1876
  - Maintenance of switch in Range avenue, Creedmoor, Borough of Queens:
    - Rescission of resolution relative to collection of compensation for past use and occupation 1870
- Lott, John Z., purchase by City of water mains and appurtenances of 2810
- Lucas & Co., John, claim for turpentine furnished the Department of Water Supply, Gas and Electricity 1711, 1780

PAGE

M

- McConaghy, Ellen, communication from, relative to sale of property on Engert avenue, Brooklyn, for Greenpoint Emergency Hospital 148, 388, 539, 592, 1357
- McGinness, Arthur F., claim for extra work in connection with contract for building sewer in One Hundred and Forty-third street, Manhattan 388
- Madison Square Garden, resolution of Board of Aldermen relative to purchase of 1717, 1906
- Maguire, Andrew J., claim for salary as Supervisor of Janitors, Department of Education 3126
- Malatesta, John B., construction, etc., of narrow gauge railroad tracks from the easterly side of White Plains road at Boston road, etc., to Bronx boulevard and to Burke street, The Bronx:
  - Application 2746
  - Grant of consent 2982
  - Mayor's approval 4260
  - Temporary permit to lay railroad track at junction of Boston road, White Plains road and Astor avenue, The Bronx:
    - Application 2746
    - Grant of consent 2982
    - Mayor's approval 4260
- Manhattan Bridge Service Company—
  - Franchise to construct, etc., street surface railway from intersection of the Bowery and Canal street to the Manhattan Bridge, over said bridge and approaches to Flatbush avenue and Fulton street, Brooklyn:
    - Designation of newspapers 4261
    - Petition 2022
    - Preliminary public hearing 2933
- Manhattan Bridge Three-Cent Line—
  - Franchise to construct, etc., a street surface railway from the Flatbush avenue station of the Long Island Railroad Company, in Brooklyn, along various streets and avenues to Manhattan Bridge, across said bridge and its approaches, to the Desbrosses Street Ferry, North River, Manhattan:
    - Report of Bureau of Franchises relative to form of contract and grant of franchise 2934
- Manhattan College, matter of purchase of property belonging to, for playground purposes 2599
- Manhattan Elevated Railroad Company:
  - Protest against additional tracks 230
  - Discontinuance of spur tracks on East Forty-second street 33, 234
- Manhattan, President of the Borough of—
  - Approval of plans, specifications and estimates of cost, contracts chargeable to Corporate Stock:
    - Delancey Street Parkway, improvement of 1101
    - Drain lines, installation of in Public Bath Building at 232 West 60th street 2794
    - Elevator and shaft in Second District Municipal Court House, 264 Madison street 822
    - Gymnasium equipment for public baths 427
    - Metallic filing cases, etc., and alterations to lighting system in Room 11, Hall of Records 2604
    - Open-air classroom in Public Bath Building, 83-85 Carmine street 1493
    - Sewer and appurtenances at foot of 79th street, East River, reconstruction of 1550
  - Cobb, Jr., George W., remission of overtime on contract for steel filing cases, etc., in office of County Clerk, Hall of Records, Manhattan 1293, 2690
  - Corporate Stock authorizations and amendments:
    - Borough map, completion of 3310
    - Bureau of Highways:
      - Asphalt repair plant, construction of 3307
      - Borough repair shop, construction and equipment of 3309
      - Corporation yard (new), construction and equipment of 3309

PAGE

- Children's Court, First Division:
  - Building (new, at Eleventh street and Third avenue, erection of (reduction in amount) 3310
  - Building, erection of, including architect's fees 3308
  - Site, acquisition of 3307
- Comfort stations (new), construction and equipment of, including architects' fees 3308
- Double barrel sewer under pier at foot of West One Hundred and Twenty-ninth street, construction of 1152
- Irving place, extension of, in connection with Lexington avenue subway 4348
- Public Baths:
  - Construction of new baths and contingent expenses 3308
  - Pools, installation of in existing baths 3308
  - Repaving 459, 1047, 3309
- Riverside Drive Extension north of One Hundred and Fifty-fifth street 1072, 1441
- Seventh avenue, extension of 3309
- Sewer at Seventy-ninth street and East River, extension of 956, 1179
- Sewers, reconstruction of 99, 3310
- Topographical work, Bureau of Engineer of Street Openings 284, 548
- Varick street, widening and extending 3309
- Widening streets 1072, 1441

Corporate Stock Budget 3306

Corporate Stock estimate for 1911-1915 372

Corporation yard under Manhattan Bridge Approach, appropriation for construction and equipment of 2343

Court of Special Sessions:
- Court rooms in Criminal Courts Building, appropriation for furnishing and equipping 748, 971
- New offices in Ashland Building, Manhattan, for Probation Officers, appropriation for alterations, equipment, etc 1883, 2067, 2158, 3282

Eidlitz, Charles I., claim for electrical work in City Hall 1292

Grand Central Yard, between 45th and 56th streets, appropriation for City's share of expense of building viaducts, crossing 2060

Local Board of the Riverside District, Manhattan, resolution of recommending establishment of playground on site located between 131st and 133d streets and Broadway and Old Broadway 2054, 2129, 2599

Repair of street pavements, issue of special revenue bonds for 712, 819, 2847, 3281

Repaving certain streets, authority to charge cost of to bond account 1071, 1336

Repaving contracts, exemption of from provisions of resolution governing corporate stock authorizations 1423

Repaving Sullivan street, from Broome street to Bleecker street, authority to charge cost of to repaving fund 1883, 2067, 2126, 2312

Riverside Drive Extension between north and south boundaries of Fort Washington road, cancellation of contract of John C. Rodgers, for building 357

Salaries, establishment of positions and grades:
- Bookkeeper 1045
- Chemist 1045
- Consulting Engineer of Sewers 2764, 3129
- Electrician 386, 959
- Engineer-Inspector 2037, 2628
- Foreman 1045
- Inspector 67, 1045
- Mechanical Engineer 2076, 2626
- Sewer Cleaner 440
- Transitman and Computer 386, 959

Schedules of salaries and wages, Budget, modification of:
- Nos. 1465, 1478 to 1488 for 1910 155

for 1911
- No. 1653 467, 792, 4371
- 1658 467, 2612, 4371
- 1661 120
- 1666 120, 2360

PAGE

1667 .... 120, 2608, 3158
1670 120
1671 120
1679 .... 120, 467
1682 4371
1683 (Budgetary Part Allowance) 467
1684 .... 120, 1043, 1451, 2360
1689 .... 1110, 4371
1691 .... 120, 467, 1988
1692 .... 2608, 3158
1694 .... 120, 467, 1451, 4368
1702 .... 1744, 4368
1703 .... 1744, 2618, 3158
1704 .... 828, 3235, 4238
1705 3235

Schedules of salaries and wages, non-budgetary, approval of:
  Bureau of Sewers, Engineering Division 1745
  Corporate stock fund for repaving streets 1378, 2076
  Special Restoring Fund, repairs under plumbers' and corporation permits 1378
  Street Improvement Fund 1378
  Widening and repairing streets, Corporate Stock Force 2618

Sewer at foot of One Hundred and Twenty-ninth street, North River, issue of special revenue bonds for construction of extension 748, 1152

Street Repavement Fund, issue of special revenue bonds for replenishing 2454

Transfers within:
  Appropriation for 1910 .... 101, 157, 391, 1279
  Appropriation for 1911 .... 123, 124, 475, 1453, 1942, 2279, 2612, 3238, 4370, 4376

Wood block pavement, communication from Central Federated Union of Greater New York protesting use of 2741

Manhattan-The Bronx Rapid Transit Railway (see Rapid Transit Railways)—

Manufacturers' Association of New York, communication from, relative to future operation of trains on the west side of The City of New York .. 1484

Mason & Hanger Company:
  Installation, etc., of compressed air line for distribution of power to certain shafts used in construction of northerly section of City tunnel of Catskill aqueduct:
    Application 2978
    Grant of consent 2978
    Mayor's approval 4260

Mayoralty:
  Bureau of Licenses:
    Automobile Engineman:
      Establishment of position 3152
      Salary:
        Issue of special revenue bonds for 3468, 4436
        Schedule for fund 4437
    Automobile, issue of special revenue bonds for purchase of 2760, 3135
    Laborer, establishment of grade of position 386
    Laborer in Division of Taxicabs:
      Issue of special revenue bonds for compensation 1292, 1715, 1776
      Schedule for fund 1777
    Stenographer and Typewriter:
      Establishment of grade of position 443, 663
      Issue of special revenue bonds for salary of 2760, 3276
      Schedule for fund 3277
    Transfer within appropriation for 1911 1485
  Bureau of Weights and Measures:
    Automobile Engineman:
      Establishment of position 3244
      Salary, issue of special revenue bonds for 4414
    Automobile, issue of special revenue bonds for purchase of 2741, 2832
    Request for establishment of grades of positions filed in 1910 1410

PAGE

  - Special Measurers, issue of special revenue bonds for compensation of 4414
- Meats, standard specifications for purchase of 68, 129
- Meisel, A. C., communication from, relative to additional hospital facilities for tuberculosis patients 2847
- Merchants' and Manufacturers' Board of Trade, communication from, relative to the future operation of trains on west side of The City of New York 1372
- Merchants' Association of New York, communication from, relative to the formulation of a plan for the future operation of trains on the west side of the City 1372
- Meserole, Darwin J., communication from, relative to transportation facilities 140
- Metropolitan Museum of Art:
  - Automatic sprinklers in basement 1489
  - Boiler plant, erection and equipment, appropriation for 3393
  - Carpenter shop, construction of 1489
  - Cork tiling on floors of picture galleries 1489
  - Extension "H," completion and equipment, appropriation for 3395
  - Furniture and fittings, appropriation for purchase of 3394
  - Lumber, approval of specifications for 1386
  - Museum cases, appropriation for purchase of 3394
  - Restaurant, alterations in 1489
- Metropolitan Sewerage Commission:
  - Corporate stock estimate for 1911-1913 2080
  - Salaries and expenses of Commission, appropriation for 2045, 3432
- Metropolitan Street Railway Company, lessee of New York and Harlem Railroad Company:
  - Right to operate over new Madison Avenue Bridge:
    - Mayor's approval 484
    - Revocation of consent granted by Department of Public Parks 267
- Metropolitan Tobacco Company, claim for expenses connected with extradition of one Joseph Cohen charged with forgery, etc. 1377
- Midwood Park Property Owners Association of Flatbush, communication from, relative to transportation facilities 1770
- Milk, condensed milk, cream and buttermilk, standard specifications for purchase of 1568
- Misericordia Hospital, request of for appropriation for maintenance 1377
- Moller, Emma L., et al., offer to purchase interest of the City in a piece of land under Spuyten Duyvil Creek 748
- Morrell, F. V., communication from, relative to preservation of Colonial Records 1488, 4304
- Morris Park Citizens' Association of Queens, communication from, relative to transportation facilities 1134
- Mosholu Parkway North Association, communication from, relative to transportation facilities 2085
- Mount Kisco, New York, acquisition of land in, for protection of water supply system 2847, 4408
- Municipal Bath House at Coney Island:
  - Change in location 183
  - Fees for use of 2800
  - Free use of by the public 2600, 2697, 2800
  - Statement of cost of operation and maintenance 2800
- Municipal Building, Brooklyn (see President of Brooklyn)—
- Municipal Building, Manhattan (see Department of Bridges)—
- Municipal Civil Service Commission:
  - Clerk:
    - Issue of special revenue bonds for salary of 4425
    - Schedule for fund 4426
  - Fireproof safes, issue of special revenue for installation of 4425
  - Investigators (two):
    - Issue of special revenue bonds for salaries 4425
    - Schedule for fund 4426
  - Per diem and Expert Examiners and Monitors:
    - Appropriation for employment of during 1911 1132, 1622
    - Schedule for fund 1624

PAGE

- Salaries, establishment of positions and grades:
  - Assistant Chief Examiner 3116
  - Chief Examiner 3116
  - Clerk 712, 1089, 3116
  - Engineer Examiner 3116
  - Examiner 712, 1089, 3116
  - Expert 3116
  - Investigator 2286, 2627
  - Monitor 3116
- Schedule of salaries, Budget, modification of No. 1331 805, 1509, 1833, 4288
- Municipal electric light and power plant in 30th Ward, Brooklyn, communication from South Side Board of Trade of Brooklyn, relative to operation of 2741, 3186, 4282
- Municipal Explosives Commission:
  - Deficiency in Budget appropriation 1600
  - Fees and expenses for 1910, appropriation for 157
  - Fees and expenses for 1911, appropriation for 2343, 2729
  - Schedule of salaries 2732
- Municipal Garage Fund, appropriation for 931, 1121
- Municipal Revenues, new sources of:
  - Appointment of Committee of Board 285
  - Appointment of Advisory Committee of Citizens 568
- Municipal statistics, publication of annual manual of 1494

N

- Nassau Association of Engineers in Charge of Pumping Stations, Department of Water Supply, Gas and Electricity, petition for increasing salaries of Engineers in charge of Pumping Stations in Brooklyn 1377
- Nassau Electric Railroad Company:
  - Construction, etc., of street surface railway loop upon Flatbush, Fourth and Atlantic avenues, Brooklyn:
    - Designation of newspapers 483, 2657
    - Execution of contract 1472
    - Grant of franchise 839
    - Mayor's approval 1055
    - Proposed form of contract 201
    - Public hearing 213, 839
    - Agreement with Brooklyn City Railroad Company and Brooklyn Heights Railroad Company to use certain tracks on Flatbush avenue:
      - Form of agreement, approval of 201, 839
      - Form of supplementary agreement, approval of 1862, 2037, 2251
      - Mayor's approval 4260
      - Public hearing on supplementary agreement 2251
      - Supplementary agreement:
        - Approval of 1862, 2037, 2251
        - Acceptance of 2875
        - Public hearing 2251, 2875
  - Construction, etc., of street surface railway upon Georgia avenue, from its intersection with Liberty avenue to the northerly side of Atlantic avenue, Brooklyn:
    - Consents of abutting property owners filed 2022
    - Designation of newspapers 483
    - Execution of contract 1472, 1862
    - Grant of franchise 831
    - Mayor's approval 1055
    - Proposed form of contract 34, 44, 219
    - Public hearing 44, 228, 831
- National Guard, etc. (see Armory Board).
- Needham, Geo. J. & Chas. A., communications from, relative to transportation facilities 2192
- Newell, Allen, communication from, relative to automatic rail fastener and steel tie in connection with building subways 140
- New Jersey Boiler Company, lienor of New York Contracting & Supply Co., petition for settlement of claim, filed 972

PAGE

- New Lots Board of Trade, Brooklyn, communication from, relative to transportation facilities 1945
- New Utrecht Avenue Property Owners' Association of Brooklyn, communication from, relative to transportation facilities 2291
- New York Academy of Medicine, communication from, urging additional hospital facilities for tuberculosis patients 2697
- New York & Harlem Railroad Company (see Metropolitan Street Railway Company, lessee).
- New York and Long Island Traction Company:
  - Operation of second track in Fourth Ward, Borough of Queens:
    - Communication from Public Service Commission 251
- New York and North Shore Traction Company—
  - Extension of time to complete and place in operation railway on Broadway, Flushing:
    - Execution of agreement 683
    - Grant of consent 56
    - Mayor's approval 213
  - Modification of contract granting franchise to construct, etc., railway from Flushing to Bayside:
    - Designation of newspapers 502, 1191
    - Execution of contract ....
    - Final public hearing 1052
    - Grant of franchise 1662
    - Mayor's approval 1869
    - Petition 501
    - Preliminary hearing 685, 1049
    - Proposed form of contract 1049
- New York and Queens County Railway Company—
  - Construction, etc., of double track railway on portion of route between Flushing and College Point:
    - Extension of time to accept franchise 683, 902
    - Report of Franchise Committee in re acceptance of franchise 518
- New York and Richmond Gas Company—
  - Franchise to lay mains and supply gas to public and private consumers in Fifth Ward, Borough of Richmond:
    - Communication from Company relative to proposed form of contract 235
    - Denial of petition 509, 683, 867, 1055
- New York Base Ball Club, communication from President of, relative to transit facilities 2364
- New York-Cahill Telharmonic Company—
  - Construction, etc., of electric wires in streets of City for distributing music electrically:
    - Designation of newspapers 213
    - Execution of contract 1053
    - Final public hearing 56, 674
    - Grant of franchise 674
    - Mayor's approval 903
    - Proposed form of contract 49, 56
- New York Central & Hudson River Railroad Company—
  - Change in location of existing overhead footbridge at Kingsbridge Station and construction of new span, etc.:
    - Application 1873
  - Extension of time to maintain and use spur track across Harlem River terrace north of Fordham road, The Bronx:
    - Application 2670
    - Grant of consent 2953
    - Mayor's approval 4260
  - Formulation of plans for future operation of trains on west side of the City:
    - Communications from Merchants' Assn., etc. 1372, 1484, 1485, 1879
    - Consideration of plan 1372, 1485, 1661, 1879
    - Reports of Commissioner of Docks 525, 914, 1057, 1262, 1371
    - Report of Committee of Board 1240, 1371
    - Reports of Consulting Engineers 1244, 1265, 1371

PAGE

Franchise to construct, etc., temporary spur tracks across East Two Hundred and Forty-first street, west of First street, The Bronx:
  Execution of contract 29
Laying branch or turnout across northwesterly corner of Twelfth avenue to connect with pier at foot of West Fifty-ninth street, Manhattan:
  Amendment of grant 702
  Application 45
  Completion of work 1482
  Execution of contract 1190
  Grant of consent 555
  Mayor's approval 1055
Rearrangement of tracks, switches, etc., at West Thirty-third street and Eleventh avenue, Manhattan:
  Application 45
  Execution of contract 1689
  Grant of consent 519, 914, 1057, 1275
  Mayor's approval 1477
  Public hearing 522, 555
Viaducts crossing Grand Central Yard between Forty-fifth and Fifty-sixth streets, appropriation for City's share of expense of building structure 2060
Taxes due City of New York for use and occupation of land west of Eleventh avenue, Sixtieth and Seventy-second streets, Manhattan:
  Communication from Corporation Counsel 2044, 2291, 2459, 2724, 2760, 2994, 3152
  Communication from Eleventh Avenue Track Removal Association 1070, 2994
  Report of Comptroller 1400

New York City Interborough Railway Company—
  Agreement with Union Railway Company in re use of tracks on Southern Boulevard 2209
  Franchises to construct, etc., extensions to existing system, viz:
    (a) From intersection of East One Hundred and Forty-ninth street and St. Ann's avenue, along East One Hundred and Forty-ninth street to Southern boulevard to Leggett avenue, The Bronx ....
    (b) From intersection of West One Hundred and Forty-fifth street and Lenox avenue, along West One Hundred and Forty-fifth street to Broadway, Manhattan ....
    (c) From intersection of Dongan street and Intervale street, along Dongan street, Stebbins avenue, East One Hundred and Sixty-third street, Washington and Elton avenues, to intersection of Elton avenue and One Hundred and Sixty-first street, The Bronx ....
      Agreements with Southern Boulevard Railroad Company and Union Railway Company in re interchange of transfers 2240, 2879
        Designation of newspapers 1476, 4260
        Final public hearing 2908, 2919, 2929
        Petition 1370
        Proposed forms of contracts 2209, 2897
        Preliminary public hearing 1664
    (d) From intersection of Southern boulevard and East One Hundred and Eighty-ninth street, upon Southern boulevard to Pelham avenue, The Bronx ....
      Agreements with Southern Boulevard R. R. Co. and Union Railway Company in re use of tracks 2240
      Designation of newspapers 1476
      Petition 1370
      Preliminary hearing 1371, 1664
      Withdrawal of petition 2209
  Non-operation of railway on One Hundred and Forty-ninth street, Manhattan:

PAGE

    Communication from President of the Southern Boulevard Railway Company 233
New York Civil Service Association—
  Engineering service of City, matter of making uniform salaries in.. 749, 1641, 1945
  Foremen in Park Departments, Boroughs of Brooklyn and Queens, matter of increasing compensation of..........1768, 3114, 4319
New York Commercial, editorial relative to "The Brooklyn Rapid Transit's Unified System" 1888
New York Contracting and Supply Co., petition of lienors of for settlement of claim, filed 972
New York County Committee of the Socialist Party, communication from, relative to incorporation in new subway contracts protection clause for workingmen 2765, 4284
New York Dock Railway Company—
  Construction, etc., of railway tracks across Baltic, Bowne and Furman streets, Brooklyn:
    Denial of petition 903
    Designation of newspapers 213
    Public hearing on petition 32, 671
New York Edison Company—
  Installation of additional ducts in bridge over East Thirty-ninth street connecting power stations on the east side of First avenue, Manhattan:
    Application 2670
    Grant of consent 2951
    Mayor's approval 4260
New York Life Insurance Company—
  Continuance of maintenance of certain pipes under and across Lafayette street, Manhattan:
  Execution of contract 692
New York Magnaphone and Music Company—
  Franchise to construct, etc., electric wires, with necessary branches and connections, under and along streets, avenues and public places within The City of New York, for purpose of distributing music, etc., electrically..........
    Application 2929
    Designation of newspapers.......... 4261
    Public hearing 2929
New York, New Haven and Hartford Railroad Company—Harlem River and Portchester R. R. Co.—
  Application for cancellation of existing bond under contract for six-tracking the Harlem River and Portchester Railroad, and substitution of a bond in a less amount 1217, 2667
  Completion of work under agreement with company, with exception of two footbridges at Lincoln and Forest avenues, The Bronx.......... 1217, 2667
    Cancellation of bond, etc. 2667, 4261
  Construction, etc., of three catenary bridges along West Farms road, to support wires necessitated by changing motive power from steam to electricity:
    Application 1879
    Grant of consent 4272
  Grant of certain lands in Bronx and Pelham Parkway, Chapter 670, laws of 1905:
    Completion of City's share of work 1218
New York Obstetrical Society, communication from, urging appropriation for establishment of a hospital for control of venereal diseases, under the jurisdiction of the Board of Health 1701
New York Per Diem Men's Civil Service Association, Central Council, communication from, relative to equalizing salaries of Foremen of Laborers, Department of Parks, Borough of Queens..........568, 3114, 4319
New York Post Graduate Medical School and Hospital—
  Permission to instal, etc., conduit across Twentieth street, Manhattan, for conveying electric current between Hospital and Nurses' Home:

PAGE

- Application, 1484
- Execution of contract, 2021
- Grant of consent, 1690
- Mayor's approval, 1869

New York Press Club, purchase from, of files of newspapers, 3493
New York Telephone Company—
- Amendment of offer submitted in 1906 relative to telephone service for City:
  - Communication from Company, 231
  - Report of Franchise Bureau relative to suit of the City vs. the Empire City Subway Company, 1277

New York, Westchester and Boston Railway Company:
- Amendments and modifications of Ordinance of August 2, 1904, viz.:
  - Change of motive power, changes in routes of main and branch lines, connection with route of the Interborough Rapid Transit Company and increased width of superstructures:
    - Designation of newspapers, 1993, 2248
    - Final public hearing, 2005, 2877
    - Grant of consent, 2877
    - Mayor's approval, 4260
    - Petition, 1866
    - Preliminary public hearing, 1869, 1993
  - Extension of time for completion of railroad between One Hundred and Seventy-fourth street and northerly boundary line of City, etc.,
    - Designation of newspapers, 1191, 1993, 2248
    - Final public hearing, 2005
    - Form of contract, 1994
    - Grant of consent, 2877
    - Mayor's approval, 4260
    - North Side Board of Trade, communication from, 2242
    - Petition, 1061, 1866
    - Preliminary public hearing, 1062, 1664

Noggerath, J. E., communication from, relative to plans for development of a rapid transit system more effcient than present subways, 3020
Normal College:
- Audit of Payrolls for teaching force, 667, 1072
- Corporate Stock Budget, 3424
- Corporate Stock estimate for years 1911-1915, 753
- New Building:
  - Construction of first portion, approval of plans and specifications for, 621
  - Interior construction and equipment, appropriation for, 3425

North Side Board of Trade, communications from, relative to:
- Inadequate school accommodations in Public Schools 20 and 39, The Bronx, 1021
- Licenses to Push Cart Peddlers, 1816
- Petition of New York, Westchester and Boston Railway Company, 2242
- Removal of old bridge over Eastchester Bay in Pelham Bay Park, 1818
- Transportation facilities, etc., 527, 1770

Norwood Heights section of The Bronx, request for purchase of school site in, 958
Nostrand Avenue Subway Route, Brooklyn (see Rapid Transit Railways).

O

Oakland View Board of Trade, Ozone Park, Queens, communication from, relative to school site on Metropolis and Lefferts avenues, Richmond Hill South, 570
O'Brien Construction Company, The—
- Temporary permit to lay track across Adams street, The Bronx:
  - Grant of consent, 2746

Ocean Breeze Company, purchase by City of water mains and appurtenances of, 2810
Official Year Book, Report of Comptroller relative to publication of, 1494

PAGE

- Opperman, Jr., Fred, Brewing Company—
  - Continuance to maintain and use a conduit under and along East Forty-fifth street, Manhattan:
    - Compensation for past use and occupation 1698, 4263
    - Grant of consent 510
- Overbaugh, A. B., communication from, relative to erection of a bridge across the Harlem River, from West One Hundred and Seventeenth street, The Bronx, to a point south of Dyckman street, Manhattan 993
- Ozone Park Board of Trade, Queens, communication from, relative to transportation facilities 1294

P

- Parks, Department of—
  - Boroughs of Brooklyn and Queens:
    - Approval of plans, specifications and estimates of cost, contracts chargeable to Corporate Stock:
      - Bushwick Playground, construction of 1010
      - Comfort Stations and Shelters in three playgrounds in Brooklyn 79
      - Dyker Beach Park, construction of lagoon in 1561, 2995
      - McLaughlin Park, construction of comfort station and shelter building in 1975
      - Sewer connection for sections F and A of Brooklyn Institute of Arts and Sciences 809
      - Shore road between Bay Ridge avenue and Ninety-second street, Brooklyn, construction of seawall, etc., along 2603
    - Brooklyn Institute of Arts and Sciences, establishment of Botanical Garden and Arboretum:
      - Preliminary expenses, appropriation for 1070, 1362
      - Transfer of property 68, 413

    - Corporate stock authorizations and amendments:
      - Bedford Park, construction and equipment of Children's Museum, including Engineer's and Architect's fees 3403
      - Borough Hall Park, improvement of 3400
      - Botanic Garden and Arboretum:
        - Grading, draining, piping, soil improvement and water course 3402
        - Greenhouses, construction and equipment 3402, 4340
        - Instruction Building, construction and equipment of 3402, 4340
        - Instruction Building, construction and equipment of (amended to read Laboratory Building) 4340
        - Laboratory building, construction and equipment of 4340
        - Plant Houses, construction of (amended to read Laboratory Building and Greenhouses, including equipment) 4340
        - Roadways, walks, etc., construction of 3403
        - Rooms for instruction in botany, construction of (amended to read Laboratory Building and Greenhouses, including equipment) 4340
      - Central Museum Building:
        - Construction of fourth section 3401
        - Architect's and Engineer's fees 3402
      - City Park, erection and equipment of a shelter house in 3400
      - Dyker Beach Park, construction of lagoon in (reduction in amount) 3403
      - Forest Park, general improvement of 3397
      - Fort Green Park, improvement of interior 3399
      - Highland Park, general improvement of, including erection of shelter and comfort house in 3400
      - Improvements in all parks, preliminary work in connection with 3401
      - Kings Park, Jamaica, erection of comfort houses in 3401
      - Linden Park:
        - Erection of comfort house in 3400
        - Improvement of 3399
      - McCarren Park, improvement of plot No. 2 3401
      - Ocean Parkway:

PAGE
Construction of sidewalks.................................. 3397
Raising parkway south of Coney Island Creek........... 3397
Prospect Park:
Comfort station (new) erection of........................ 3398
Plaza at Fifteenth street entrance, improvement of........ 3398
Storehouse and work shop (new), erection and equipment of 3398
Water supply and drainage system, installation of.......... 3398
Sunset Park, completion of................................ 3399
Triangle at East New York and Pitkin avenues, improvement of 3399
Corporate Stock Budget 3396
Foremen of Laborers, matter of equalizing salaries of....568, 1768, 3114, 4319
Salaries, establishment of positions and grades:
Cleaner (female) 386, 550
Gardener 2459, 3115, 4319
Gardener in Charge....................................2459, 3115, 4319
Scrubwoman 386, 550
Wheelwright 1414
Schedules of salaries and wages, Budget, modification of:
No. 1168 .... 70. 1305 1958
No. 1170 801
No. 1182A 70, 752
No 1183 70
Schedules of salaries and wages, non-budgetary, approval of:
Engineering and Construction Force 944
Special and Trust Fund 944
Seaside Park at Coney Island, acquisition of site for.............. 3305
Transfers, within:
Appropriation for 1910 746
Winthrop Park, continuance of band concerts in.................. 1929, 2054
Boroughs of Manhattan and Richmond:
American Museum of Natural History:
Appropriation for construction of fireproof storage rooms and for equipment, etc. 2080
History and growth of buildings, etc., folder relative to...... 2045
Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
American Museum of Natural History:
Glass, furnishing and delivering 1801
Lumber, furnishing and delivering 1149
Central Park:
Erection, etc., of storage sheds in........................ 1431
Transverse road, No. 2, improvement of.................. 3066
Colonial Park:
Pipe rail fences 408
Water pipe and appurtenances 809
Metropolitan Museum of Art:
Cork tile floors, furnishing and laying.................... 4380
Lumber, supply of 1386
Masons' materials 353
Mulberry Bend Park, construction of playground in........... 1392
New York Public Library, furnishing coal for................ 947
Playgrounds:
East One Hundred and First street:
Construction of Field House in.......................... 1570
Improving southerly side of 1826
North side of Cherry street, between Market street and Manhattan Bridge, construction of.................. 1893
Northwest corner of Worth and Baxter streets, construction of 2147
Shelter and comfort station in, construction of...... 2704
Under Queensboro Bridge, Sutton place, between Fifty-ninth and Sixtieth streets, improving.................. 3259

PAGE

- West Fifty-ninth street, Amsterdam and West End avenues:
  - Field House in, construction of 1963
  - Improvements in 1392
- St. Gabriel's Park, construction of playground in 1801

Automobile, issue of special revenue bonds for purchase of 2727

Central Park, communication from Central Park Restoration Committee relative to an appropriation for improving 2331

Central Park, issue of special revenue bonds for regenerating lawns, in 2995, 3284

Concerts in parks, armories, etc., issue of special revenue bonds for furnishing additional 1883, 2453

Corporate stock authorizations and amendments:
- American Museum of Natural History:
  - Construction of foundation for southeast wing and Court Building 3395
  - Furnishing and equipping 416
  - Purchase of cases, book stacks, etc 3395
  - Furniture and fittings for 3394
- Aquarium Building, Battery Park (new), construction of foundation and walls for the wings of 3394
- Carl Schurz Memorial at One Hundred and Sixteenth street and Morningside Park, erection of 3393
- Central Park:
  - Comfort Station:
    - Alteration and improvement of station near ballground 3389
    - Installation of drainage and water supply system in 3391
  - Paving drives 3390
  - Playgrounds, construction and equipment of (rescission of amount authorized) 3396
  - Sewer from Terrace Bridge, construction of 3390
  - Transverse roads, improvement of:
    - Sixty-fifth street 3391
    - Ninety-sixth street 3391
  - Water supply and irrigation system, installation of 3390
- Cooper Square, Manhattan, erection and equipment of a comfort station in 3391
- Firemen's Memorial, Riverside Drive, erection of foundation for 3393
- Improvements in all parks, preliminary work in connection with 3390
- John Jay Park:
  - Improvement and completion of 3395
  - Improvement of street on westerly side, between Seventy-sixth and Seventy-eighth streets 3392
- Metropolitan Museum of Art:
  - Boiler plant, erection and equipment of 3393
  - Extension "H," completion and equipment of 3395
  - Furniture and fittings for, purchase of 3394
  - Museum cases, purchase of 3394
- Playhouses and toliet facilities in playgrounds throughout the City, erection and equipment of 3392
- Public driveway, between One Hundred and Fifty-fifth street and Dykeman street, construction of stone bulkhead along easterly boundary of 3392
- Riverside Park, between One Hundred and Twenty-second street and Claremont place, completion of addition to 3392
- Seventh avenue parkway, general improvement of, from Central Park to Harlem River 3393
- Silver Lake Park, Borough of Richmond, improvement of 3396, 4339

Corporate Stock Budget 3388

PAGE

- Corporate stock estimate for 1911-1915 527, 569
- Metropolitan Museum of Art:
  - Automatic sprinklers in basement 1489
  - Carpenter shop, construction of 1489
  - Cork tiling on floors of picture galleries 1489
  - Restaurant, alterations in 1489
- Morningside Park, discontinuance of use of for playground purposes 2599
- New York Public Library:
  - Coal, issue of special revenue bonds for purchase of 1488, 1917
  - Maintenance and expenses of during 1911, issue of special revenue bonds for 4414
- Pipe fitter:
  - Issue of special revenue bonds for increase in wages of 2344, 2699
  - Schedule for fund 2700
- Playground on Broadway, Old Broadway, One Hundred and Thirty-first and One Hundred and Thirty-third streets, Manhattan, communication from Local Board of Riverside District, Manhattan, relative to 2054, 2129, 2599
- Playground on One Hundred and Thirty-sixth to One Hundred and Fortieth streets, east of Fifth avenue (Canary Island), transfer to Park department of property for 2600
- Playground work, matter of changing compensation of Attendants from a monthly to a per diem rate 570
- Reclamation of land between Eighty-first and One Hundred and Twenty-ninth streets, report relative to 289
- Salaries, establishment of positions and grades:
  - Architect 2458, 3115
  - Assistant Superintendent of Parks 2191, 2614, 2692
  - Bath Attendant (female) 125, 442
  - Cleaner (female) 125, 442
  - Clerk 2458, 2741, 3135
  - Director of Menagerie 2286, 3083
  - Gardner in charge 2459, 3115
  - Gardener 2459, 3115
  - Head School Farm Attendant 749, 1635
  - Keeper of Menagerie 2286, 3083
  - Mechanical Engineer 2084, 3081
  - School Farm Attendant 185, 749, 1635
  - Supervisory Attendant 2038, 3082
  - Topographical Draftsman 749, 1086
  - Wheelwright 1414
- Salaries, request for establishment of grades of positions filed in 1910 1410, 1411
- Schedules of salaries and wages, Budget modification of:
  - No. 1057 76, 166, 2133
  - No. 1068 71, 1967, 2700
  - No. 1082 4292
  - No. 1083 551, 1839
  - No. 1084 1990
  - No. 1085 71, 1967
- Schedules of salaries and wages, non-Budgetary, approval of:
  - Corporate Stock force:
    - Architectural and construction 1633
    - Central Park (improving drainage system) 1631
    - Chelsea Park (surveys, plans, etc.) 1505
    - Colonial Park (improvement and construction) 1505
    - Engineering and construction 943, 1633, 4396
    - Improvement of playgrounds throughout the city 1783
    - New York Public Library fund 1635
- Transfers within:
  - Appropriation for 1910 148, 149, 747, 1373, 2992
  - Appropriation for 1911 (disapproval of) **525**

PAGE

- Wheelwrights:
  - Issue of special revenue bonds for payment of prevailing rate of wages 1944, 2348
  - Schedule for fund 2349
- Borough of Queens:
  - Forest Park:
    - Communication relative to improvements in........ 1489
    - Construction of roadways, paths, etc., appropriation for...... 3397
  - Kings Park, Jamaica, erection of comfort house in, appropriation for 3401
  - Preliminary work in connection with improvements in all parks. 3401
  - Rainey Park, approval of plans, etc., for construction of gravel walks, sea wall and pipe rail fence in........ 2793
  - Seaside Park at Rockaway Beach, acquisition of site for........ 3305
- Borough of The Bronx:
  - Approval of plans, specifications and estimates of costs, contracts chargeable to Corporate Stock:
    - Bronx and Pelham Parkway:
      - Completing the grading and laying of asphalt block pavement on the unpaved portions of the roadway on the southerly side 3228
      - Reconstructing and resurfacing roadway........ 1795, 3241
    - Claremont Park, grading and constructing retaining wall in.. 623
    - Franz Seigel Park:
      - Reconstruction and alteration of shelter building........ 2055, 4300
    - Macombs' Dam Park, construction of a comfort and shelter station in 2300
    - Pelham Bay Park, construction of bridge from Hunter Island to Twin Island 1115
    - Zoological Park, Bronx Park, construction of a zebra house in 2349
  - Automobile issue of special revenue bonds for purchase of........ 2344, 2790
  - Bronx Park:
    - Administration building, claim of John V. Schaefer, Jr., & Co., for work on 2055, 2154
  - Bronx and Pelham Parkway:
    - Contract for reconstruction and resurfacing, award to other than lowest bidder 2760, 3468, 4305
    - Improving, appropriation for 1944
    - Reconstructing and resurfacing roadway, from Williamsbridge road to White Plains road, request for appropriation for.. 3486, 4347
  - Corporate Stock authorizations and amendments:
    - Bronx and Pelham Parkway:
      - Completion of road from Botanical Garden........ 3405
    - Bronx Park, raising and improving low lands east of music pavilion 3405
    - City Island road, rebuilding and widening, from Bartow station to City Island Bridge........ 3405
    - Claremont Park, fire proof vaults in office building in........ 993
    - Crotona Park, improving easterly and westerly portions of.... 3406
    - De Voe Park, completion of........ 3413
    - Drinking fountains in various parks, construction of........ 3414
    - Echo Park, general improvement of........ 3406
    - Fencing the boundaries of parks........ 3407
    - Grand Boulevard and Mosholu Parkway, construction of connecting driveway between 3407
    - Improvements in all parks, preliminary work in connection with 3406
    - Macombs' Dam Park, drainage system for low lands in........ 3406
    - New York Botanical Garden:
      - Boundary fence, construction of........ 3412
      - Cases (new) for books and specimens for Museum Building 3413
      - Greenhouse, erection of an additional........ 3413
      - Masonry retaining walls at Boulevard entrance and masonry steps at power house, construction of........ 3412

PAGE
Pergola, erection of 3413
Rock and earth excavation and disposal within grounds 3412
Walks (new) and railings along walks, construction of 3412
New York Zoological Park:
Development of park east of Bronx Park, including erection of pavilion 3411
Fences, guard rails, yards,, planting trees and other permanent improvements 3411
Power plant and workshop building, erection and equipment of 3410
Public Service Building, erection and equipment of 3410
Rocking Stone Restaurant, erection of an extension to 3411
Walks (new), construction of 3411
Winter house for pelicans, erection and equipment of 3410
Zebra house yard, construction of 3410
Pelham Bay Park:
Bathing beaches, increasing and improving shore front of 3408
Bath houses (additional), and comfort station, erection of 3408
Draining meadow land 3408
Railings around small parks and along paths and roads 3407
St. Mary's Park:
Improving southerly portion of 3405
Laying asphalt walks in 1071, 1396
Trees and shrubs, purchase of for planting and restocking nursery 3407
Van Cortlandt Park:
Colonial Mansion, erection of an addition to, and installation of heating plant in 3409
Comfort station near Van Cortlandt Mansion, erection of 3408
Drainage of swamp lands other than those south of Colonial Garden 3409
Drain to sewer in Broadway, completing the construction of 3414
Rock cut on Broadway side of park, improvement of 3409
Water supply system for nursery 3409
Corporate Stock Budget 3404
Crotona Park North and vicinity, The Bronx, petition of property owners for removal of grand stand in athletic field in Crotona Park North 993
Fire escapes on "Turnbull Mansion" at Bartow-on-the-Sound, issue of special revenue bonds for erection of 2995, 4424
Grand Boulevard and Concourse, appropriation for connecting with main driveway of Mosholu Park 1888
Pelham Bay Park:
Drainage system of marsh land, appropriation for establishment of 1600, 3408
Fire escapes on summer houses used by Jacob A. Riis Neighborhood Settlement and Little Mothers' Aid Association, appropriation for erection of 2168, 2455
Salaries, establishment of positions and grades:
Automobile Engineman 2286, 2799
Axeman 932, 1176
Clerk 1944, 3116
Gardener in charge 2459, 3115, 4319
Gardener 2459, 3115, 4319
Superintendent of Parks 2344
Salaries request for establishment of grades of positions, filed in 1910 1412
Schedules of salaries and wages, Budget, modification of:
No. 1133 437, 4387
1125-1133 (disapproved) 807
Schedules of salaries and wages, non-Budgetary, approval of—
Corporate Stock force:
Additional greenhouses for propagating purposes 970, 1307, 1425

PAGE

- Crotona Park, improvement of easterly and westerly portions of 1513, 3485
- Construction of manure pits adjacent to park stations 1547, 3485
- Construction of drinking fountains in various parks 3485
- Engineering and construction force 970, 1112
- Road to connect park system with roads in Botanical Garden 1108, 1620, 2048, 2686, 3192
- St. Mary's Park, walks and drainage system in 970, 1112

Transfers within:
- Appropriation, 1910 64
- Appropriation, 1911 2280, 2746, 2992, 3147
- Disapproval of request for transfer, 1911 338

Van Cortlandt Park, elimination of swamp lands in 3235, 3473

Payroll expenditures—
- Statement of Comptroller showing disbursements for:
  - November, 1910 112
  - December, 1910 432
  - January, February and March, 1911 1931
  - Quarterly statement to be prepared by Comptroller 126

Peck, Laurence F., communication from, relative to appointment of a Commission of Architects to report on Court House site for New York County 2741

Pelham Bay Park, additional transit facilities in:
- Amendment of Section 191 of Railroad Laws 281, 496
- Removal of railroad tracks 61

Pelham Park Railroad Company (see City Island Railroad Company and Pelham Bay Park Railroad Company)

Pennsylvania Tunnel and Terminal Railroad Company, conveyance of land at Sunnyside, Borough of Queens, to 385, 625

Pensioning City employees, committee to report upon subject 1920

People's Hospital of New York, application for appropriation for care of charity patients 2741

People's Institute, communication from, relative to an independent rapid transit system 285, 286

Per diem employees, matter of granting a two weeks' vacation to 4283

Petition of citizens of Brooklyn and Queens in re transit facilities 1889

Pfizer, Charles & Company—
- Construction, etc., of pipe under and across Gerry street, west of Harrison street, Brooklyn:
  - Application 1193
  - Execution of contract 2020
  - Grant of consent 1693
  - Mayor's approval 1869
  - Rescission of grant by Board of Aldermen 1698

Pipefitter:
- Establishment of grade of position in all City departments 585, 2123
- Increased compensation, departments to provide 589

Plass, Herbert C., appropriation for services in matter of acquiring title to lands for construction of an extension to Manhattan terminal of New York and Brooklyn Bridges 2600

Playgrounds:
- Additional, request for appropriation for, in Corporate Stock Budget 3244
- Broadway, Old Broadway, One Hundred and Thirty-first and One Hundred and Thirty-third streets, Manhattan, matter of acquisition of 2054, 2129, 2599
- One Hundred and Thirty-sixth to One Hundred and Fortieth streets, east of Fifth avenue, Manhattan (Canary Island), resolution of Board of Aldermen, relative to acquiring property 2600
- East River Park, Queens, matter of acquisition of 1702
- Sites in Borough of Queens, matter of acquiring 1702

Playground work, matter of changing compensation of attendants from a monthly to a per diem rate 570, 1077

Pleasant, Carl, application for position in Standard Testing Laboratory 2191

Plumbers, Association of Master, communication from relative to the wage scale for plumber and helper 932, 1173

PAGE

- Plumber:
  - Establishment of grade of position in all City departments ... 1173
  - Increased compensation, departments to provide ... 1173
- Police Department—
  - Assistant Engineer:
    - Issue of special revenue bonds for salary of ... 1070, 2697
    - Schedule for fund ... 2699
  - Corporate Stock Budget ... 3421
  - Doormen, matter of increasing compensation of ... 1091
  - Eighth Police Precinct Station House, Manhattan, approval of Architect's services in preparation of plans, etc. ... 1700, 1900
  - Enginemen (Stationary Engineers), appropriation for increase in compensation of ... 978, 1883, 2697
  - Job Compositors:
    - Issue of special revenue bonds for increased compensation of. 824, 2078, 2350
    - Schedule for fund ... 2352
  - Patrolmen, regrading salaries of ... 1091
  - Plumbers:
    - Issue of special revenue bonds for increase in compensation of.. 2078, 2350
    - Schedule for fund ... 2352
  - Police dogs, issue of special revenue bonds to provide for hire of quarters for ... 2078, 2606
  - Roofer (metal):
    - Issue of special revenue bonds for increase in compensation of... 2037, 2350
    - Schedule for fund ... 2352
  - Salaries, establishment of positions and grades:
    - Engineman ... 978
    - Job Compositor ... 823
  - Stationary Engineers:
    - Issue of special revenue bonds for salaries ... 1883, 2697
    - Schedule for fund ... 2699
  - Station house and court in Ridgewood section, Borough of Queens, communication from Ridgewood Heights Improvement Association relative to ... 753, 1700
  - Station house and prison for Two Hundred and Eighty-third Precinct, Richmond Hill, authority to contract for Architects' services.... 569, 1448
  - Station houses, prisons and stables, authorizations of corporate stock for:
    - Eighteenth Police Precinct, land and building ... 3422
    - Fifteenth Police Precinct, land and building ... 3422
    - New Precinct in The Bronx, land and building ... 3422
  - Transfers within:
    - Appropriation, 1910 ... 391, 392
    - Appropriation, 1911 ... 1764
- Postal Telegraph Cable Company—
  - Construction, etc., of conduits, from corner of Canal and Chrystie streets, Manhattan, across Manhattan Bridge and through Boroughs of Brooklyn and Queens to beach at Far Rockaway:
    - Amended petition ... 249, 562
    - Designation of newspapers ... 484
    - Proposed form of contract ... 855, 1222
    - Public hearing ... 251, 565, 855
    - Withdrawal of previous petitions ... 249, 562
- Potter, Jennie L., communication from, relative to her status on teaching staff, Department of Education ... 1491
- Prevailing rate of wages in City departments for:
  - Pipefitter ... 585, 2123
  - Plumber ... 1173
  - Roofer ... 590
  - Roofer (metal) ... 590
  - Sheet Metal Worker ... 590
  - Steamfitter ... 585, 2123
  - Tinner ... 590
  - Tinsmith ... 590
  - Tinsmith and Roofer ... 590
  - Wheelwright ... 1414

PAGE

- Property acquired by City, corporate stock for expenses connected with examination of titles to 1066
- Property owners and merchants of New York, communication from, protesting third-tracking of elevated structure on the Bowery 2996
- Property owners of Brooklyn, petition of, protesting subway on Atlantic avenue, Brooklyn 3142
- Property Owners' Association of The Bronx, communication from, relative to transit facilities 2683
- Property Owners' Association of the Twenty-third Ward, Borough of The Bronx, communication from, relative to transit facilities 695, 1133
- Prospect Park Extension Subway Route, Brooklyn (see Rapid Transit Railways)—
- Public Charities, Department of—
  - Approval of plans, specifications and estimates of cost, contracts chargeable to Corporate Stock:
    - City Hospital, Blackwells Island:
      - Laundry building (new), erection and completion of 3229
    - Coney Island Hospital, filling and grading at 1311
    - Home for Aged and Infirm, Blackwells Island, electric light and power service for 1494
    - Industrial School, Randalls Island, erection of 78
    - Kings County Hospital:
      - Bridge connecting main building with annex, erection of 68, 466
      - Children's Hospital Building 1964
      - Heating, ventilating and plumbing systems in annex 68, 466
      - Nurses' Home and Training School, ceiling and wall decoration for 2794
      - Refrigerating plant, alterations to 945
    - Metropolitan Hospital:
      - Electric wiring 1117
      - Furniture, etc., for:
        - East and West Tuberculosis Infirmaries 1151
        - Staff House 1974
      - New boilers in Power House 1507
    - New York City Children's Hospital and Schools, Randalls Island:
      - Day Rooms for Pavilions F and F2, erection of 404
      - Nurses' Home, steam lines and sewer connections for 2057
    - New York City Farm Colony:
      - Equipment of new dormitories 1015, 1177
      - Sanitary sewer in St. Nicholas avenue, Port Richmond 411
      - Sewer in Willow Brook road 2145
    - New York City Home for Aged and Infirm, Blackwells Island, lighting by electricity buildings and streets in upper division of 811
    - Sea View Hospital, Staten Island:
      - Administration Building, Surgical Pavilion, etc., completion of 1981
      - Sewers, etc. 410
  - Bakers, issue of special revenue bonds for salaries of 95
  - Children's Bureau, Brooklyn, employment of additional force:
    - Issue of special revenue bonds for salaries 2846, 3255
    - Schedule for fund 3257
  - City Hospital, Blackwells Island, request for appropriation for constructing new building for 1133
  - Conditions and needs of department in connection with budget appropriation for 1912, communication from State Board of Charities relative to 4282
  - Corporate Stock accounts, request for transfer of unencumbered balances in, and creation of new accounts 753, 1179
  - Corporate Stock authorizations and amendments:
    - City Hospital, Blackwells Island:
      - Dormitory for female employees, construction and equipment of 3381
    - Cumberland Street Hospital, Brooklyn:
      - Acquisition of site and construction of new building to replace present structure 3379

PAGE

- Erection of new buildings, additions, improving and permanently bettering and equipping existing buildings and new steamboats (reduction in amount) 3382
- Erection of new buildings and for additions, improvements and permanently bettering existing buildings 3385
- Kings County Hospital:
  - Bakery, construction and equipment of an addition to........ 3381
  - Electric feeders for power and light, purchase and installation of 3377
  - Heating and power plant, erection and equipment of an addition to 3377
  - Main heating tunnel, extension to.......................... 3378
  - Psychopathic Ward, construction and equipment of an extension to 3380
  - Sewer mains, construction of................................ 3378
  - Staff house, construction and equipment of.................. 3380
  - West wing, furnishing and equipping........................ 3377
- Metropolitan Hospital, Blackwells Island:
  - Boilers in heating plant (additional), installation of.......... 3379
  - Dining hall and kitchen for tuberculosis patients, construction and equipment of 3380
  - Dormitory of female employees, construction of.............. 3382
  - Dormitory for male employees, construction of................ 3380
  - East Tuberculosis Infirmary, erection and equipment of an extension to 3382
  - Remodeling tower of main building into operating rooms...... 3382
- New buildings, additions, etc. 582
- New York City Farm Colony, Richmond:
  - Furniture and fixtures for dormitory........................ 753
  - Kitchen, dining hall, service building and bakery, construction and equipment of 3378
  - Laundry, construction and equipment of...................... 3378
- Randalls Island:
  - Boiler house and heating plant, construction and equipment of 3379
  - Laundry plant, construction and equipment of................ 3381
- Sea View Hospital, Staten Island:
  - Erection and completion of............................1071, 1581, 3381
  - Sanitary sewer, acquisition of easement in connection with construction of 3324

Corporate Stock Budget 3376

Corporate Stock estimate for 1911-1915 .... 68, 1888

Cumberland Street Hospital, Brooklyn, issue of special revenue bonds for salary of a Nurse at.. 2760, 3119

Deckhands, issue of special revenue bonds for increase in wages of.. 2995, 3287, 4414

Examiners, communication from State Board of Charities, relative to increasing force of.. 1629, 4304

Fire alarm systems, fire escapes, stand pipes and other fire protection equipment in all hospitals and buildings, issue of special revenue bonds for 4414

Greenpoint Emergency Hospital:
- Site:
  - Committee on Selection:
    - Appointment of 592
    - Report of 1357
  - Communications relative to, from:
    - Greenpoint Taxpayers' and Citizens' Association, protesting selection of property on Noble street 148, 388, 539, 592
    - Jefferson Club of Seventeenth Ward, Brooklyn, urging selection of site on Noble street 148, 388, 539, 592
    - McGonahy, Ellen, offer to sell property, 143 Engert avenue 148, 388, 539, 592
    - Siegelman, Julius, Attorney for owner of premises 143, 145 and 147 Noble street, offering to give immediate possession 388, 539, 592

PAGE

- Ordinance of Board of Aldermen, selecting site ... 148, 388, 539, 592
- Reports of Comptroller, relative to site ... 148, 388, 539, 592

Har Moriah Hospital, communication from relative to compensation for care of patients admitted and accepted as public charges by the Department of Public Charities ... 3235

Kings County Home for Aged and Infirm at Flatbush, matter of accommodations of inmates ... 1314, 1768

Kings County Hospital:

- Ambulance service for insane patients, establishment of:
  - Issue of special revenue bonds for salaries ... 1883, 4428
  - Schedule for fund ... 4429

Metropolitan Hospital Training School:

- Issue of special revenue bonds for salaries of Trained Nurses ... 2994, 3119, 3277
- Schedule for fund ... 3121

Offer of sale from Charles T. Carroll of property Nos. 239-241 Greene street, Brooklyn, for hospital purposes ... 4414

New York City Training School:

- Issue of special revenue bonds for salaries of Trained Nurses ... 2994, 3277
- Schedule for fund ... 3278

Pathologists (two), issue of special revenue bonds for salaries ... 2995, 3287, 4414

Salaries, establishment of positions and grades:

- Alienist ... 2084, 2797
- Assistant Alienist ... 1644
- Automobile Engineman ... 1644
- Clerk ... 1644
- Confidential Inspector ... 1644
- Deckhand ... 1644
- Dentist ... 1644
- Deputy Superintendent (Lay) of Institutions ... 67
- Dietitian ... 1644
- Draftsman ... 283, 441, 1644
- Electrician ... 1644
- Employment Agent ... 1644
- Engineman (Marine) ... 1644
- Examiner of Charitable Institutions ... 67, 1644
- Fumigator ... 1644
- General Medical Officer ... 67, 1644
- General Medical Superintendent ... 1664, 2076, 2796
- Head Gardener ... 1644
- Inspector ... 1644
- Inspector of Foods ... 1644
- Instructor ... 1644
- Instructor of Nurses ... 283, 441
- Laboratory Assistant ... 1644
- Laborer ... 1644
- Laundryman ... 1644
- Orderly ... 1644
- Physician (Examining) ... 1644
- Pilot ... 1644
- Purchasing Agent ... 1644
- Resident Physician ... 1644
- Secretary ... 1644
- Statistician ... 1644
- Stenographer and Typewriter ... 67, 1644
- Superintendent of Municipal Lodging House ... 1644
- Superintendent of the Bureau of Dependent Adults, Brooklyn ... 1644
- Superintendent of Repairs and Supplies ... 1644
- Supervising Apothecary (position abolished) ... 1644
- Supervising Engineer ... 1644
- Surgical Clerk ... 1644
- Teacher ... 1644
- Telephone Operator ... 1644
- Trained Nurse ... 1644
- **Watchman** ... 67

PAGE

Salaries in several divisions of the department for portion of year 1911:
- Issue of special revenue bonds....2847, 3224, 4423
- Schedule for fund.... 3325, 4424

Salaries of one Clerk and one Stenographer and Typewriter:
- Issue of special revenue bonds for 1070, 1621
- Schedule for fund 1622

Salaries, positions and grades, requests relative to, filed in 1910.... 1091

Schedule (Budget) No. 754, modification of, to include salaries of 2 Examiners of Charitable Institutions.... 3033

Schedules of salaries and wages, Budget, modification of:
- Nos. 705, 706, 707, 709, 711.... 2089
- No. 712 ....2089, 3294, 4294
- Nos. 713, 714, 715, 716, 717, 718, 720, 724, 726 and 728.... 2089
- No. 729 .... 803, 2089
- Nos. 730 to 736 2089
- Nos. 738, 739 and 740.... 2089
- No. 741 .... 2089, 4294
- Nos. 742, 744, 758, 761, 762, 763, 764, 765, 767, 768, 775, 789, 790 and 792 2089
- No. 808a 2089, 4294

Sewer from Sea View Hospital, acquisition of easement in land traversed by 569, 3152, 4370

Steamfitters, issue of special revenue bonds for increase in wages of. 2995, 3287, 3324, 4414

Trained Nurses (additional) at New York City Training School and Metropolitan Hospital Training School:
- Issue of special revenue bonds for salaries....2994, 3119, 3277
- Schedule for fund 3121, 3278

Trained Nurse at Cumberland Street Hospital:
- Issue of special revenue bonds for salary.... 2760, 3119
- Schedule for fund 3121

Trained Nurses, issue of special revenue bonds for salaries of.... 2846

Transfers within:
- Appropriation for 1908 64
- Appropriation for 1910 ....153, 990, 1104, 2143
- Appropriation for 1911...803, 1592, 2102, 2103, 2104, 2988, 3034, 3250, 4296, 4432
- Disapproval of request for transfer within appropriation for 1910. 155

Tuberculosis patients, increased hospital accommodations for.... 2633, 2683, 2697 2764, 2847 2995, 3153

Public Recreational facilities:
- Appointment of Committee to investigate with view to possible coordination and better development of work.... 1171
- Report of Committee relative to enactment of legislation creating Public Recreation Commission 1841, 1890, 2043

Public Service Commission—
- Ballantine, Annie, et al., purchase by Public Service Commission of award made for damage to Parcel No. 16 in proceeding to acquire easements in extending elevated extension of subway in Westchester avenue, The Bronx 1767, 1900
- Brooklyn-Manhattan Loop Lines:
  - Acquisition of real estate for construction and operation (rescission of amount authorized) 3299
  - Acquisition of real estate in Manhattan for construction and operation, appropriation for....68, 189, 2633, 3299
  - Bradley Contracting Company, agreement with, relative to settlement of claims in connection with contract, and resumption and completion of work on Section 9-0-1....145, 290, 735
  - Readjusting balances in appropriation for construction 145, 290, 735
- Lexington Avenue Subway:
  - Contracts for construction, consent to award of and appropriations for 3142, 3499, 4249, 4413
    - Section No. 5, Route 5, award of contract for.... 4413
      - Form of contract 4099, 4249

- Section No. 6—East Twenty-sixth street, under Lexington avenue to East Fortieth street:
  - Form of contract 3499, 3649
  - Report of Comptroller 4249
  - Issue of bonds 4251
- Section No. 7—Fortieth street, under Lexington avenue, to East Fifty-third street:
  - Form of contract 3649, 3799
  - Report of Comptroller 4249
  - Issue of bonds 4252
- Section No. 8—East Fifty-third street, under Lexington avenue, to East Sixty-seventh street:
  - Form of contract 3799, 3949
  - Report of Comptroller 4249
  - Issue of bonds 4252
- Section No. 10—East Seventy-ninth street, under Lexington avenue, to East Ninety-third street:
  - Form of contract 3949, 4099
  - Report of Comptroller 4249
  - Issue of bonds 4253
- Section No. 11—East Ninety-third street, under Lexington avenue, to East One Hundred and Sixth street:
  - Form of contract 4099, 4249
  - Report of Comptroller 4249
  - Issue of bonds 4254

Manhattan-Bronx Rapid Transit Railroad:
- Acquisition of real estate for construction and operation 2995, 4359
- Agreement between The City of New York and John B. McDonald, the Rapid Transit Subway Construction Company and the Interborough Rapid Transit Company, relative to settling and adjusting claims growing out of construction of railroad 69
- Changes in railroad necessitated by widening of certain streets, appropriation for 2847, 4361
- Station at One Hundred and Ninety-first street, appropriation for construction of 713, 1641

Rapid Transit Railways:
- Battery-East River-Atlantic Avenue route:
  - Communication from Public Service Commission, relative to establishment of route and general plans for construction 2986
    - Consideration of communication, etc. 3145, 3247, 3447, 3451
    - Approval of plans, etc., and consent to construction 4255
- Eastern Parkway Route, Brooklyn (Revocation of):
  - Resolution of Public Service Commission, revoking resolution adopting route and general plan of construction 1218
    - Consideration of resolution of Public Service Commission. 1221, 1369, 1661, 2005
    - Approval of resolution rescinding and revoking resolution adopting route, etc. 2005, 2013
- Extensions to existing system, third tracking and constructing additions to the Second, Third and Ninth Avenue Elevated Roads, and completion and putting in operation of Steinway Tunnel:
  - Committee of the Whole, references to 18, 2193
  - Communication from Public Service Commission, submitting proposition of the Interborough Rapid Transit Company.. 1, 2635
  - Conference Committee:
    - Appointment of 281, 522
    - Continuance of 2641, 2652, 3458
    - Report of Committee with relation to pending proposals for the construction, equipment and operation of rapid transit lines, and upon the general transit situation in The City of New York 2193, 2367
      - Approval of 2636, 2644, 3456
      - Amendments to 2646

PAGE
Consideration of 2430, 2633, 2635, 2863, 3247, 3447, 3452
Operating terms, amendments of.................... 2643, 2863
Printing of report, payment of bill for............. 4437
Protest of Allied Boards of Trade of Brooklyn against adoption of report unless Lafayette avenue subway route is included therein 2643
Routes in the Borough of The Bronx, amendments to 2642
Routing terms, amendments to, affecting extensions in the Borough of Queens 2642
Statement of President of The Bronx............... 2653
Statement of Chairman, Merchants' Association Committee of Chamber of Commerce, in re report... 2644, 2745
Supplementary report.................2652, 2745, 2849, 3452, 3497
Contracts for construction, equipment and operation of rapid transit lines:
Acceptance by Brooklyn Rapid Transit Company of terms proposed by the City with certain amendments......... 2745, 2849, 2863, 2986
Declination by Interborough Rapid Transit Company of terms proposed by the City....................2745, 2851, 2853
Preparation of contracts by Public Service Commission.. 2647, 2850, 3456, 3467, 3497
Recommendations of Conference Committee 2863
Statement by President, Board of Aldermen, relative to lease terms 2865
Terms of proposed contract with Interborough Rapid Transit Company, modification of 2851, 2864
Discussion among members of Board in relation to recommendations contained in Conferees' report................... 3458, 3465
Fourth avenue subway, Brooklyn, construction of to Fort Hamilton and Coney Island 2644
Franchise Committee:
Majority report of 1
Minority report 278
Projected line to Staten Island, communication from President of the Borough of Richmond, relative to 2428
Route from Sixty-fifth street and Fourth avenue, Brooklyn, under New York harbor to a point at St. George, Staten Island, communication from President of Richmond, relative to 63, 234
Routes in the Borough of Queens, communication from President of the Borough of Queens, relative to 281
Statement by President Board of Aldermen, relative to award of extended rapid transit system, as recommended by Conference Committee 3247, 3447
Supplemental offer of Interborough Company to operate all of the routes laid down in Conferees' report................. 3452
Fifty-ninth Street-Queensboro Bridge route:
Communication from Public Service Commission, relative to establishing route and general plans of construction.... 3468
Consideration of plans and conclusions.................. 4255
Livonia Avenue Route, Brooklyn:
Approval of route 2016
Consideration of plans and conclusions 1221, 1369, 1661
Establishment of route and general plan for construction..... 1218
Nostrand Avenue Route, Brooklyn:
Approval of route 2013
Consideration of plans and conclusions 1221, 1369, 1661
Establishment of route and general plan for construction.... 1218
Prospect Park Extension, Brooklyn:
Modification of route and general plan of construction...... 1218
Consideration of plans and conclusions 1221, 1369, 1661
Securing borings along routes of proposed construction, issue of special revenue bonds for 2682, 3010
Salaries and expenses during 1910, issue of special revenue bonds for 87

PAGE

Salaries and expenses during 1911, issue of special revenue bonds for 87, 2682, 3010
Schedules of salaries for 1911, approval of 92, 344, 436, 2138, 2828
Transfer within appropriation for 1911 2832

Q.

Queens Borough Street Railway Company:
  Franchise to construct, etc., street surface railway upon and along Van Alst avenue, from Franklin street to Winthrop avenue, First Ward, Borough of Queens:
    Report of Bureau of Franchises in re history of petition and tentative approval of form of contract 2967
Queens Civic League, communication from, relative to fire hydrants for certain sections of Borough of Queens 1423
Queens County Water Company, settlement of claim for hydrant rental in the Borough of Queens 633, 2164
Queens, President of the Borough of—
  Adoption of certain public thoroughfares as City highways, maintaining and repairing same until officially mapped and physically improved at expense of City at large 3468, 4319, 4324
  Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock accounts:
    College Point Causeway, Hempstead Turnpike, Jamaica Turnpike and Woodhaven avenue, repaving 285, 1826
    Dredging channel at mouth of Fifth avenue, sewer College Point. 1119, 3172
    Granite monuments and cast-iron covers for monuments for topographical work 2782
    Sewer foot of Broadway, First Ward, repairing cover-over 413, 1393
  Automobile Engineman:
    Issue of special revenue bonds for salaries for portion of year 1911 2995, 3286
    Schedule for fund 3287
  Bureau of Buildings:
    Building Inspectors, employment of ten additional:
      Issue of special revenue bonds for 2037, 3037, 4414
      Schedule for fund 4416
  Bureau of Highways:
    Issue of special revenue bonds for hire of steam rollers and engineers for use in repairing and resurfacing roads 2067, 2157
    Schedule of salaries and wages for fund 2158
    Issue of special revenue bonds for salaries of Foremen, assigned as General Foremen 2344, 3008
  Bureau of Public Buildings and Offices:
    Foreman of Plumbers:
      Issue of special revenue bonds for increase in salary 2995, 3291
      Schedule for fund 3292
    Issue of special revenue bonds for compensation of additional employees 1767, 2301
    Schedule for fund 2303, 2686
  Bureau of Street Cleaning:
    Continuance of operations during 1911:
      Issue of special revenue bonds 1596, 3178
      Schedule of salaries and wages for fund 3181
    Reimbursing accounts, issue of special revenue bonds for 1292, 1823
    Removal of snow and ice, issue of special revenue bonds for 68, 372, 1823
  Chemical, bacteriological and testing laboratory, issue of special revenue bonds for establishment of 2847
  City Magistrates' Court, Fourth District, issue of special revenue bonds for equipping court-rooms in Town Hall, Jamaica, for 1488, 1903
  Consulting Engineer, issue of special revenue bonds for salary of 2995
  Corporate stock, authorizations for:
    Concrete culvert, to replace bridge at Norton's Creek, Edgemere, construction of 3319

PAGE
- Concrete retaining wall on Shore road, between Hoyt and Woolsey avenues, construction of 3320
- Concrete sea wall on Willett's Point, construction of 3319
- Concrete wing wall, construction of and repairing and extending rip-rap, on Jackson avenue, between Shell road and Flushing Bridge 3319
- Crematory, construction, acquisition or purchase of (reduction in amount) 3322
- Fireproof building and purchase of steel filing cases for records in County Clerk's and Surrogate's Offices 3433
- Interior public bath in Ridgewood, construction of 3320
- Public comfort station at Bridge Plaza, construction of 3320
- Public comfort station in Ridgewood, construction of 3320
- Refuse destructor, stable and section house at Ridgewood, construction of 3320
- Refuse destructor, stable and section house at Rockaway, construction of 3320
- Repaving streets and avenues 459, 1047, 3321
- Topographical work, preparing and completing maps, etc. 175, 1489, 3321

Corporate Stock Budget 3318
Corporate stock estimate for 1911 to 1915 1489
Final disposition of garbage in Fifth Ward, award of contract for 1488, 1723
Kremp, August J., claim for salary as Plan Examiner in Bureau of Buildings 1710, 1779
Repaving, contracts, exemption from provisions of resolution governing corporate stock authorizations 1423
Retaining walls, Shore road and Willett's Point road, matter of request for issue of special revenue bonds for building 713, 1177
Rent of rear half of building, 51 Jackson avenue, Long Island City, issue of special revenue bonds for 953
Salaries, establishment of positions and grades:
- Consulting Engineer 3486, 4411
- Flagger 443
- Inspector of Regulating, Grading and Paving 2191, 2305
- Inspector of Sewer Construction 1377, 1809
- Messenger 2678, 3116
- Sweeper 1377, 2052

Schedules of salaries and wages, Budget, modification of:
- For 1910:
  - No. 1610 772
  - No. 1623 399
  - No. 1657 305
- For 1911:
  - No. 1824 598, 1160
  - No. 1826 598, 1545
  - No. 1828 779
  - No. 1829 1160
  - No. 1830 1160
  - No. 1839 (budgetary part schedule) 596, 3031
  - Nos. 1841 and 1859 402
  - No. 1863 762, 1782
  - No. 1864 762

Schedules of salaries and wages, non-budgetary, approval of:
- Bureau of Highways, Engineering and Inspection Division 4330
- Bureau of Sewers (Street Improvement Fund), Field and Construction Force 1892, 2125, 3187
- Topographical Bureau 175, 458, 3053

Sewage Disposal Plant, issue of special revenue bonds for establishment of 1596, 2062, 3053

Sewers:
- Fifth avenue, College Point, issue of special revenue bonds for dredging at mouth of 1119
- Myrtle avenue, issue of special revenue bonds for repairing outlet to 816

PAGE

- St. Nicholas and Myrtle avenues, issue of special revenue bonds for removing deposit from 1292, 1563, 1601, 1702, 1770, 2301
- Streets not laid out on City Map, acquisition of titles to 4326
- Thomson avenue and Hoffman boulevard, repairing and resurfacing, from Queensboro Bridge to Hillside avenue:
  - Issue of special revenue bonds 3469
  - Schedule of wages for fund 3470
- Tinsmith:
  - Issue of special revenue bonds for increase in compensation of 1767
  - Schedule for fund 2303, 2686
- Topographical Bureau:
  - Appropriation for expenses of, for 1911 175
  - Approval of schedule of salaries and wages 175, 458, 769, 794
  - Granite monuments, approval of contract for 2782
  - Increase in salaries of certain employees 794, 992, 1560, 1657, 1782, 1889, 1981, 2046, 3053, 4315
  - Revision of salary schedules, involving increases in salaries, matter of 2343
- Topographical map, completion of 2191
- Transit routes in Queens, communications from President of Borough of Queens relative to 281, 2642
- Transfers within:
  - Appropriation for 1910 .... 775, 2991
  - Appropriation for 1911 .... 402, 598, 928, 1160

Queens County Water Company, settlement of claim for hydrant rental in Borough of Queens 633

Quinn, Arthur C., et al., claims of, for back salary as Van Drivers under Sheriff of Kings County 1883, 2725

Quinlan, William J., settlement of claim for coal delivered to the Department of Water Supply, Gas and Electricity 645

R

Rae Company, William P., purchase by City of water mains and appurtenances of 2810

Rapid Transit Indebtedness—
- Brooklyn-Manhattan Rapid Transit Railroad:
  - Amount of indebtedness which may be excluded in ascertaining power of City to become otherwise indebted:
    - Comptroller's statement 141, 290, 552
    - Form of resolution submitted by Law Department 83, 145
    - Petition to Supreme Court, etc. 290, 552

Rapid Transit Railways (General Matters)—
- Communications, petitions, etc., relative to transportation facilities, additional rapid transit railways, and construction and operation of subways:
  - Allied Boards of Trade and Taxpayers' Association of Brooklyn .. 1133, 1889, 1945, 2085
  - Allied Real Estate Interests 388, 1133, 2741
  - Bath Beach and Bensonhurst Board of Trade 2291
  - Bath Beach Taxpayers' Association 1491
  - Broadway Subway, Brooklyn, petition of citizens 286, 388, 714
  - Bronx Transit Association 69, 140, 285, 569, 753, 1888
  - Brooklyn Board of Real Estate Brokers 1133
  - Brooklyn Central Labor Union 2646
  - Brooklyn League 1294, 2741, 3469, 4284
  - Brooklyn, petition of citizens of 1624
  - Brooklyn Transit Conference 1072, 2046, 3469
  - Brown, Lewis 1889
  - Canarsie Board of Trade of Brooklyn 2046
  - Century Holding Company 2291
  - Chamber of Commerce, Borough of Queens 4398
  - Chamber of Commerce of the State of New York 140, 2644, 2745
  - Citizens' Association of Bay Ridge and Fort Hamilton 993
  - City Club of New York 388, 2995

PAGE
Civic Association of the Borough of Queens 527
Claflin, John 3469
Coughlan & Tuttle, representing property owners in South Brooklyn 3142
Duca, John 1888
Dyckman Taxpayers' Association 2741
East Tremont Taxpayers' Association 69
Erie Basin Board of Trade 388
Excelsior Brewing Company 2192
Farmers' and Taxpayers' Association, Borough of Queens 3303
Fifth Avenue Association of New York 1133
Fiske Terrace Association of Brooklyn 2046
Flatbush Board of Trade 1378
Flatbush, petition of citizens of 1072, 1133, 1294, 1378, 2291
Flatbush Taxpayers' Association 1491
Fort Hamilton Citizens' Association 1294
Fulton Street Board of Trade, Brooklyn 2046
Gales, Joseph 2085
Glen Morris Civic League 1294
Grout, Edward M. 2646
Habighorst, Ernest J. 2765
Haviland, C. Augustus 3303
Hearn & Son, James A. 2080
Homestead Civic Association of Woodhaven 1889
Hotel Association of New York 2291
Huebner, Anton 2291
Imboden, D. C. 714
Improvement Associations of Fourth Ward, Queens 569, 1134, 2741
Jamaica Citizens' Association 1134
Janson, Albert 286
Johnson, F. M. 2192
Kensington and Parkville Improvement League 2080
Kings Highway Board of Trade, Brooklyn 1072
Lawson & Co. 714
Leubuscher, Albert L. 1888, 4284
Meserole, Darwin J. 140
Midwood Property Owners' Association of Brooklyn 1770
Morris Park Citizens' Association of Queens 1134
Mosholu Parkway North Association 2085
Needham, George G. 2192
New Lots Board of Trade of Brooklyn 1945
New Utrecht Avenue Property Owners' Association of Brooklyn. 2291
New York Base Ball Club, President of 2364
New York Commercial 1888
Noggerath, J. E. 3020
North Side Board of Trade of New York 1770
Ozone Park Board of Trade 1294
People's Institute 285, 286
Petition of certain property owners of Brooklyn 3142
Petition of Citizens of Brooklyn and Queens 1889
Property owners and merchants of New York 2996
Property Owners' Association of the Borough of The Bronx 2683
Regular Democratic Organization of Brooklyn 1133
Richmond Hill Republican Club 527
Rogers, Charles F. 2464
Seward Republican Club 140
Sondheim, Max 2646
South Brooklyn Board of Trade 1072
South Bronx Property Owners' Association 285
South Ozone Park Association 1702, 1889
Sweeney, George W. 2080
Taxpayers' Alliance of the Borough of The Bronx 2741
Taylor, Mrs. C. E. 2046
Thayer, Edward C. 1702
Thirtieth and Thirty-first Wards of Brooklyn, petition of property owners of 2291

PAGE

Thirty-first Ward Taxpayers' Association of Brooklyn 1770
Tierney, A. M. 2080
Tower Manufacturing and Novelty Company 2291
Tremont Taxpayers' Association 569
Twenty-eighth Ward Board of Trade, Brooklyn 714
Twenty-eighth Ward Taxpayers' Protective Association of Brooklyn 714
Twenty-fourth Ward Board of Trade, Brooklyn.......... 1133
Twenty-second Assembly District Republican Club of Kings County 1889
Twenty-third Street Improvement Association of New York...... 140
Twenty-third Ward Property Owners' Association of The Bronx 2291
Unionport Taxpayers' Association 2046
United Brotherhood of Carpenters and Joiners 527
United Real Estate Owners' Association of New York City...... 2996
Vantine & Company, A. A. 2046
Veil, Jacob Henry 2046
Warner, Mary L. 2364
Weltsch, Dave 2683
West End Citizens' League of Woodhaven..........1945, 4284
West Side Taxpayers' Association of New York 2765
Whitestone Improvement Association 2046
Wood, Henry S.......... 69, 140, 388, 714, 753, 1889, 2046, 2080, 2291, 2464, 2683, 2742, 2765, 2996, 3153, 3469
Workingmen's Exchange of America 1945
Wyckoff Heights Taxpayers' Association 140, 2683

Rapid Transit Railways—
- Battery-East River-Atlantic Avenue route:
  - Communication from Public Service Commission, relative to establishment of route and general plans for construction 2987
    - Consideration of communication, etc...........3145, 3247, 3447, 3451
    - Approval of plans, etc., and consent to construction...... 4255
- Brooklyn-Manhattan Loop Lines:
  - Acquisition of real estate in Manhattan for construction and operation, apropriation for 68, 189, 2633, 3301
  - Bradley Contracting Company, agreement with, relative to settlement of claims in connection with contract, and resumption and completion of work on Section 9-0-1..........145, 290, 735
- Eastern Parkway Route, Brooklyn (Revocation of):
  - Resolution of Public Service Commission revoking resolution adopting route and general plan of construction...... 1218
    - Consideration of resolution of Public Service Commission. 1221, 1369, 1661, 2005
    - Approval of resolutions rescinding and revoking resolutions adopting route, etc. 2005, 2013
- Extension along Jerome avenue to Woodlawn Cemetery, The Bronx, petition of residents relative to.......... 2464
- Extensions to existing system, third tracking and constructing additions to the Second, Third and Ninth Avenue Elevated Roads, and completion and putting in operation of Steinway Tunnel:
  - Committee of the Whole, references to.......... 18, 2193
  - Communication from Public Service Commission, submitting proposition of the Interborough Rapid Transit Company.. . 1, 2635
  - Conference Committee:
    - Appointment of 281, 522
    - Continuance of 2641, 2652, 3458, 3465
    - Report of Committee with relation to pending proposals for the construction, equipment and operation of rapid transit lines, and upon the general transit situation in The City of New York.......... 2193, 2367
      - Approval of 2636, 2644, 3456
      - Amendments to 2646
      - Consideration of 2430, 2633, 2635, 2863, 3247, 3447, 3452
      - Operating terms, amendments of.......... 2643, 2863
      - Printing of report, payment of bill for.......... 4437

PAGE

Protest of Allied Boards of Trade of Brooklyn against adoption of report unless Lafayette avenue subway is included therein 2643
Routes in the Borough of The Bronx, amendments to 2642
Routing terms, amendments to affecting extensions in the Borough of Queens.......................... 2642
Statement of President of The Bronx................ 2653
Statement of Chairman of Merchants' Association of Chamber of Commerce, in relation to report...... 2644, 2745
Supplementary report 2652, 2745, 2849, 3452, 3497
Contracts for construction, equipment and operation of rapid transit lines:
Acceptance by Brooklyn Rapid Transit Company of terms proposed by the City with certain amendments...... 2745, 2849, 2863, 2986
Declination by Interborough Rapid Transit Company of terms proposed by the City......................2745, 2851, 2853
Preparation of contracts by Public Service Commission.... 2647, 2850, 3456, 3467, 3497
Recommendations of Conference Committee............... 2863, 3452
Statement by President, Board of Aldermen, relative to lease terms 2865
Terms of proposed contract with Interborough Rapid Transit Company, modification of 2851, 2864
Discussion among members of Board in relation to recommendations contained in Conferees' report.................... 3458, 3465
Fourth avenue subway, construction of to Fort Hamilton and Coney Island 2644
Franchise Committee:
Majority Report 1
Minority Report 278
Projected line to Staten Island, communication from President of the Borough of Richmond, relative to 2428
Route from Sixty-fifth street and Fourth avenue, Brooklyn, under New York Harbor to a point at St. George, Staten Island, communication from President of Richmond relative to 63, 234
Routes in the Borough of Queens, communication from President of the Borough of Queens, relative to............... 281
Statement by President Board of Aldermen, relative to award of extended rapid transit system, as recommended by Conference Committee 3247, 3447
Subway connection between Boroughs of Brooklyn and Richmond, communications relative to 2046, 2614, 2683
Supplemental offer of Interborough Company to operate all of the routes laid down in Conferees' report.................. 3452

Fifty-ninth Street-Queensboro Bridge Route:
Communication from Public Service Commission, relative to establishing route and general plans of construction.... 3468
Consideration of plans and conclusions.................. 4255

Lexington Avenue Subway:
Contracts for construction, consent to award of, and appropriations for 3142, 3499, 4249, 4413
Section No. 5—Irving place, Grammercy Park and Lexington avenue, from East Fourteenth street to East Twenty-sixth street, award of contract................ 4413
Section No. 6—East Twenty-sixth street, under Lexington avenue, to East Fortieth street:
Form of contract.................................. 3499, 3649
Report of Comptroller 4249
Issue of bonds 4251
Section No. 7—Fortieth street, under Lexington avenue, to East Fifty-third street:
Form of contract 3649, 3799

PAGE
Report of Comptroller 4249
Issue of bonds 4252
Section No. 8—East Fifty-third street, under Lexington avenue, to East Sixty-seventh street:
Form of contract 3799, 3949
Report of Comptroller 4249
Issue of bonds 4252
Section No. 10—East Seventy-ninth street, under Lexington avenue to East Ninety-third street:
Form of contract 3949, 4099
Report of Comptroller 4249
Issue of bonds 4253
Section No. 11—East Ninety-third street, under Lexington avenue, to East One Hundred and Sixth street:
Form of contract 4099, 4249
Report of Comptroller 4249
Issue of bonds 4254
Livonia Avenue Route, Brooklyn:
Resolution of Public Service Commission establishing route and general plans for construction 1218
Consideration of plans and conclusions 1221, 1369, 1661, 2016
Approval of route 2016, 2018
Manhattan-Bronx Rapid Transit Railroad
Acquisition of real estate for construction and operation 2995, 4359
Agreement between The City of New York and John B. McDonald, the Rapid Transit Subway Construction Company and the Interborough Rapid Transit Company, relative to settling and adjusting claims growing out of construction of 69
Changes in railroad, necessitated by widening of certain streets, appropriation for 2847, 4361
Station at One Hundred and Ninety-first street, appropriation for construction of 713
Pineapple street tunnel, matter of construction of 4284
Nostrand Avenue Route, Brooklyn:
Resolution of Public Service Commission establishing route and general plan for construction 1218
Consideration of plans and conclusions 1221, 1369, 1661, 2013
Approval of route 2013, 2016
Prospect Park Extension, Brooklyn:
Resolution of Public Service Commission modifying route and general plan of construction 1218
Consideration of plans and conclusions 1221, 1369, 1661, 2005
Approval of modified route 2005, 2013
Unified system of subways proposed by Brooklyn Rapid Transit Railroad Company, communication relative to 1888
Real Estate—
Assessed valuation of real estate, prospective increases in for 1911 and in subsequent years to 1915, statement relative to 85
Real Estate Exchange of Long Island, communication from relative to establishment of paid Fire Department in Second Ward, Borough of Queens 1600, 1905
Records, Commissioners of—
Kings County:
Steel filing and map cases etc., issue of special revenue bonds for installation of 1943, 3130
Transfer within appropriation for 1910 .... 68, 992
New York County:
Colonial records owned by the City, copying of 1488, 4304
Corporate Stock estimate for 1911-1915 27
Files of early editions of newspapers published in City and County of New York, approval of purchase of from New York Press Club 2458, 3493
Restoration of old and mutilated records during 1911, Special Revenue Bonds for 712, 1143

PAGE

  - Schedules of salaries, Budget—modification of 1182, 1297
  - Steel filing cases in Office of County Clerk:
    - Approval of contract and appropriation for installation of.... 127, 1126, 1701, 2764, 2765, 3432, 4307, 4432
    - Remission of overtime on contract for installation of, in Hall of Records 1293, 2690
  - Transfer within appropriation for 1911 2606
- Recreation Commission, creation of 1890, 2043
- Recreation facilities, plan for co-ordination and combination of present agencies having jurisdiction over, and development of work..1171, 1841, 1890, 2043
- Redemption of the City Debt, 1911, transfer from........................ 2456
- Registers—
  - Kings County:
    - Salaries, establishment of positions and grades:
      - Deputy Register 1325
      - Executive Clerk 1768, 3088
      - Stenographer and Typewriter 1325
    - Schedule of salaries, Budget—modification of.................... 1004, 4330
  - New York County:
    - Modification of Budget salary schedules, 1911 .... 808, 1789
    - Recording documents, change in method of 68
- Regular Democratic Organization of Brooklyn, communication from relative to transportation facilities 1133
- Reis and O'Donovan—
  - Claim for additional work on Williamsburg Bridge.................. 1156
  - Claim for work on Oliver and South streets High Pressure Pumping Station 2317
- Rent of property leased for County offices, issue of special revenue bonds for payment of 2995, 3278
- Rents, Richmond County, transfer from appropriation for 1909........... 927
- Repaving—
  - All boroughs, appropriation for 459, 1047
  - Exemption of contracts from provisions of resolutions governing corporate stock authorizations 1423
  - Policy of the City, report of the Chief Engineer of the Board relative to 2126, 2312, 2729
- Richmond Borough Citizens Tunnel Committee, communication from relative to subway connection between Brooklyn and the Borough of Richmond 2614, 2683
- Richmond County Jail, construction of fence around property........... 526, 3325
- Richmond County Society for Prevention of Cruelty to Children, issue of special revenue bonds for care of children held for arraignment in Children's Court 1377, 3257
- Richmond County, transfer from appropriation—"Rents," 1909 927
- Richmond Hill Republican Club, communication from relative to transportation facilities 527
- Richmond Light and Railroad Company—
  - Change in line of route in vicinity of Fort Wadsworth, Borough of Richmond:
    - Amended petition 235
    - Application for temporary permit 1121
    - Contract, acceptance of by Railroad Company 1482
    - Contract, amended 1198, 1666
    - Contract, proposed 1198, 1666
    - Designation of newspapers 484, 1476
    - Final public hearing 1120, 1677, 2193
    - Grant of franchise 2193
    - Mayor's approval 2656
    - Preliminary public hearing 236, 856
    - Proposed contract 1198
    - Recission of resolution fixing date for public hearing on petition... 33
  - Change in certain routes, and extensions of same in vicinity of St. George, Borough of Richmond:
    - Execution of contract 2666
    - Extension of time to accept franchise 229

PAGE
Grant of franchise 1463
Proposed form of contract 857
Public hearing 867
Richmond, President of the Borough of—
Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
Clifton Refuse Destructor:
Construction of Destructor.......... 83
Construction of building, foundation, etc.......... 2151
Construction of Radial brick chimney.......... 4398
County Clerk's Office, alterations and additions to.......... 3174
Sanitary Sewer in St. Nicholas avenue, Port Richmond, to connect with New York City Farm Colony, construction of.......... 410
Shed, oil house, etc., at West New Brighton 1072, 1340
Sewers in Willow Brook road, and Port Richmond road, to connect with New York City Farm Colony 2145
Architect's services in connection with addition to building occupied by County Clerk at Richmond, authority to pay fees for.......... 713
Bureau of Highways, purchase of property at Mariners Harbor for use as a corporation yard 2085
Bureau of Street Cleaning:
Inequality of rates of wages paid to employees in, compared with similar positions in other boroughs.......... 1767, 3074
Street flushing machines, issue of special revenue bonds for purchase of 2995, 3301
Corporate Stock authorizations:
Bureau of Street Cleaning:
Construction of stable at Clifton.......... 3324
New stock or plant.......... 3325
County Court House at New Brighton (new), acquisition of site and construction of building 3325
County jail at Richmond, construction of wall or fence around.... 526, 3325
Experimental sewage disposal plant, construction and maintenance of 3324
Grade crossings, elimination of.......... 4342
Refuse destructor works at Clifton:
Construction of Engineer's house.......... 3323
Grading and construction of a retaining wall.......... 3324
Refuse destructor at Tottenville, acquisition of site and construction of building 3323
Repaving 459, 1047
Storage purposes, acquisition of land and construction of building in Second and Fourth Wards, for.......... 3324
Sanitary sewer at the Sea View Hospital, acquisition of easement in connection with construction of.......... 3324
Topographical work 3325
Corporate Stock Budget.......... 3322
Estimator, establishment of position in Building Bureau, all boroughs. 1077, 1418, 2995
Field Engineering Corps, issue of special revenue bonds for rent of office for 1699, 2052
Grade crossings, elimination of, appropriation for salaries of force in connection with 2342, 3326, 4342
Removal of snow and ice in 1911, special revenue bonds for.......... 161
Repaving contracts, exemption of from provisions of resolution governing corporate stock authorizations 1423
Repaving with granite block or Hassam concrete pavement the roadway of Brighton avenue, approval of specifications and form of contract for 2044, 2614
Richmond County Jail, matter of an appropriation for construction of wall around property 526
Salaries:
Establishment of grades of positions of:
Assistant Engineer 1700, 2307
Assistant Superintendent of Street Cleaning.......... 1132, 1808

PAGE
        Automobile Engineman 1700, 2307
        Chief Clerk 1700, 2307
        Chemist 2286, 3100
        Clerk 1700, 2307
        Driver 1700, 2307
        Engineer 2038, 2742
        Inspector 1700, 2307
        Inspector of Regulating, Grading and Paving 1700, 2307
        Inspector of Sewer Construction 1700, 2307
        Leveler 1700, 2307
        Rodman 1700, 2307
        Stenographer and Typewriter 1700, 2307
        Topographical Draftsman 1700, 2307
        Transitman 1700, 2307
        Transitman and Computer 1700, 2307
    Request for establishment of positions and grades filed in 1910 1412, 1413
  Schedules of salaries and wages, Budget—modification of:
    No. 1888 117, 1394
    No. 1892 (Budgetary part allowance) 117, 979, 1330, 1782, 1889, 1981, 2045, 2182, 4311
    No. 1897 and 1898 1394
    No. 1900 117, 1424
    No. 1910 1113
    No. 1923 and 1934 117, 1424
    No. 1944 1038
    No. 1921 3004
  Schedules for per diem employees and rate of pay for Steam Roller Enginemen 166, 1424
  Schedules of salaries and wages, Non-budgetary, approval of:
    Corporate Stock Force:
        Bureau of Engineering, construction force 797, 2364
        Bureau of Street Cleaning 3239
        Plans for elimination of grade crossings 4343
        Refuse destructor, plans and specifications 797, 3239
        Sewage disposal experimental plant 2364, 4311
        Special fund, restoring and repaving 525.797
        Topographical Bureau 476, 1713. 1781, 1889, 1981, 2045, 2184, 2741, 3038, 4377
  Sewer from Sea View Hospital, acquisition of easement in land traversed by 569, 3152, 4370
  Staten Island Association of Arts and Sciences, appropriation for moving plant and employment of additional force 994
  Subway development, etc., communication relative to 527
  Sub-surface structures:
    Issue of special revenue bonds for wages of Engineering force and other expenses, contingent to work of locating, recording and mapping 2995, 4427
    Schedule for fund 4428
  Topographical Bureau:
    Modification of schedule of salaries and wages 476, 1713. 1781, 1889, 1981, 2045, 2184, 2741, 3038, 4377
    Salaries, appropriation for payment of 2081
  Transfers within:
    Appropriation for 1910 154
    Appropriation for 1911 1396
  West New Brighton Refuse Destructor, reservation by Staten Island Rapid Transit Railway Co. of fee to lands occupied by 1365
Ridgewood Board of Trade, communication from relative to the continuance of the study of the German language in the public schools 285, 769
Ridgewood Heights Improvement Association, communications from relative to:
  Establishment of paid Fire Department in Ridgewood Heights section of the Borough of Queens 1702, 1905, 2085, 2608
  Inadequate school accommodations in Ridgewood Heights section of the Borough of Queens 1179

PAGE

- Inconvenient location of Police Station House at Fresh Pond road and Elm avenue, Glendale 753, 1700
- Ridgewood Times, communication from relative to improvements in Forest Park 1489
- Riis, Jacob A.—communication from relative to an appropriation for erecting fire escapes on houses in Pelham Bay Park, used as summer homes, etc. 2168, 2455
- Ring, Welding, communication from relative to plan for future operation of trains along the west side of the City 1372
- Riverdale Health League, communication from, relative to elimination of swamp lands in Van Cortlandt Park 3235, 3473
- Riverside Drive:
  - Extension between north and south boundaries of Fort Washington Park, cancellation of contract for building 357
  - Extension north of 155th street, reduction in corporate stock authorization for 1072, 1441
- Riverside Light and Power Company, The—
  - Franchise to construct etc., conduits for supplying electricity for light and power within the district bounded by the marginal street and Twelfth avenue, One Hundred and Thirty-fourth and One Hundred and Twenty-ninth streets, Manhattan:
    - Designation of newspapers 2656
    - Petition 2025
    - Power of Board to grant franchise 2886
    - Preliminary Public Hearing 2248, 2881
    - Protest of Consolidated Telegraph and Electrical Subway Co. 2251, 2881, 2886
- Robitzek, Harry, communication from relative to regulating and grading position of Inspector throughout the City 1091
- Rockaway Park, report of Corporate Stock Budget Committee, relative to acquisition of land for 3305, 3306
- Rockwood & Company:
  - Construction, etc., of platform scale within easterly sidewalk lines of Waverly avenue, north of Park avenue, Brooklyn:
    - Application 4263
    - Grant of consent 4263
- Rodgers, J. C., cancellation of contract for building extension of Riverside Drive, between north and south boundaries of Fort Washington road 356
- Rogers, Charles F., communication from relative to transit facilities 2464
- Roofer (Metal) and Roofer:
  - Establishment of grades of positions in all City Departments 590
  - Increased compensation, Department to provide for payment of 592
- Ruppert, Jacob, and George Ehret—
  - Joint application to continue to maintain, etc., pipes on East Ninety-third street and across Avenue A, to East River, Manhattan:
    - Execution of contract 919
    - Grant of application 253
    - Mayor's approval 912
    - Recission of grant by Board of Aldermen 266

S

- St. Nicholas Park, Manhattan, Corporate Stock for extending an addition to 1131
- Salaries of City employees:
  - Application of heads of departments, etc., for establishment of positions and grades to be submitted with departmental estimates for ensuing year 2742, 3115
  - Employees paid from non-budgetary funds, rates to be fixed annually at time of adoption of corporate stock budget 3262, 4287
  - Report of Committee on Salaries and Grades, disapproving requests of various heads of departments, etc., for establishment of positions and grades 3115
  - Report of Committee on Salaries and Grades, returning for filing requests of heads of departments for establishment of positions and grades, filed in 1910 1407
  - Report of Committee on Salaries and Grades, returning for reference to

- Committee on Standardization of Salaries and Grades, requests of various departments for establishment of positions and grades 1091
- Salary schedules, rules governing the modification of 1826, 1892, 1951, 3262, 4287
- Schaefer, Jr., & Co., John V., claim for work done on Administration Building, Bronx Park 2055, 2154
- Schedules for employees paid from corporate stock or other accounts 4288
- Seaside park, request for appropriation for, in Corporate Stock Budget 3244
- Schwarzchild & Sulzberger Company—
  - Permission to place beef cars on existing switch opposite Gansevoort street during certain hours of the day:
    - Application 2025
    - Application denied 4276
    - Authority of Board to grant consent 2665, 4276
- Second Avenue Railroad Company—
  - Abandonment of certain unused tracks and franchises:
    - Abandonment proceedings by Railroad Company, matter of 45, 48, 514, 885, 1686, 1861, 2655
    - Annulment of agreement by Park Department for use of railway tracks crossing Central Park 200
- Section 242 of Charter, amendment of 57, 234
- Seventh avenue, Manhattan, appropriation for extension of 3309
- Seventh avenue parkway, appropriation, for general improvement of 3393
- Sewage, discharge of from Passaic Valley into New York Harbor, appropriation for expenses of litigation with State of New Jersey relative to 2760, 3018
- Seward Republican Club, communication from relative to transportation facilities 140
- Shannon Company, David—
  - Maintenance of unauthorized pipe on West Fortieth street, Manhattan:
    - Application 1060
    - Execution of contract 2019
    - Grant of consent 1211
    - Mayor's approval 1477
    - Payment of compensation for past use and occupation 2672
    - Removal of pipe by City 252, 1216
- Sheet Metal Worker:
  - Establishment of grade of position in all City Departments 590
  - Increased compensation Department to provide payment of 592
- Sheridan, T. A. S., Company, communication from relative to construction of a dump at Ninety-seventh street and North River, Manhattan 86
- Sheriffs—
  - Kings County:
    - Kings County Jail:
      - Compensation of two Keepers and one Cleaner for the year 1911, appropriation for 68, 950
      - Matron:
        - Appropriation for compensation of 1961
        - Schedule for fund 1962
    - Transfer within appropriation for 1908 1592
    - Transfer within appropriation for 1911 1913
    - Van Drivers, claims of Arthur C. Quinn et al., for back salaries as 1883, 2725
  - New York County:
    - Increase in salaries of Under-Sheriff, Deputy Sheriffs and Assistants to Deputy Sheriffs, appropriation for 4413
    - Transfer within appropriation for 1910 702
  - Queens County:
    - Queens County Jail, report on inspection of by State Commission of Prisons 148
    - Salaries, request for establishment of grades of positions filed in 1910 1410
    - Warden, establishment of grade of position of 1293, 3103
  - Richmond County:
    - Expenses incurred in 1909, by late Sheriff Barth, issue of special revenue bonds for 85, 948
    - Finger Print Clerk, appropriation for compensation of 2132, 2299
    - Salaries, request for establishment of grades of positions filed in 1910 1410
    - Transfer within appropriation for 1910 781

PAGE

- Shurly, Dr. E. L., communication from relative to progress of work of Board of Inebriety ... 2741
- Siegelman, Julius, offer to give immediate possession of premises 143 to 147 Noble street, Brooklyn, selected for Greenpoint Emergency Hospital 388, 539, 592, 1357
- Silverman, Frank E., communication from relative to condition of lots in rear of Public School 136, Brooklyn ... 364
- Sinking Fund Commission:
  - Matter of exchange of property at Sunnyside yard, Borough of Queens 385, 625
- Sizer, Adrian, communication from, relative to prosecution of claim of The City of New York vs. the United States Government for expenditures made during the Civil War ... 2994
- Socialist Party of New York, communication from, relative to incorporation of clause in subway contracts for protection of labor ... 4284
- South Brooklyn Board of Trade, communication from relative to transportation facilities ... 1072
- South Bronx Property Owners' Association, communication from relative to transportation facilities ... 285
- Southern Boulevard Railroad Company:
  - Agreement with New York City Interborough Railway Company relative to use of tracks on Southern Boulevard ... 2240
    - Franchises to construct, maintain etc., extensions to existing railway, viz.:
      - (a) From intersection of Southern Boulevard and East One Hundred and Forty-ninth street, The Bronx, to and across bridge over the Harlem River to West One Hundred and Forty-fifth street, Manhattan, and along said street to Broadway ...
        - Petition withdrawn ... 2242
      - (b) On Southern Boulevard from Boston road to Pelham avenue, The Bronx ...
        - Designation of newspapers ... 2248
        - Final Public Hearing ... 2036
        - Form of contract ... 2025
        - Grant of franchise ... 2867
        - Mayor's approval ... 4260
  - Non-operation of railway on One Hundred and Forty-ninth street, Manhattan:
    - Communication in response to criticism of New York City Interborough Railway Company ... 233
- South Ozone Park Association of the Borough of Queens, communication from relative to transit facilities ... 1889
- South Side Board of Trade of Brooklyn, communication from relative to construction of a municipal electric light and power plant in 30th Ward, Brooklyn, etc. ... 2741, 3186
- South Shore Traction Company—
  - Extension of time to select and designate route in Jamaica:
    - Application for extension of time ... 31, 479, 682, 915, 990
    - Report of Franchise Committee ... 479, 914
  - Modification of route ... 31, 480, 916, 990
    - Report of Franchise Committee ... 479, 914
    - Revocation of franchise, communication from Citizens' Union relative to ... 480, 915
  - Selection and Designation of route in Jamaica:
    - Forfeiture of contract, public hearing relative to ... 483, 914, 989
- South Shore Water Works Company of Staten Island, offer of sale of franchises, pumping plant, etc. ... 1702, 3129, 3156, 3470
- "Speedway", The, corporate stock for acquisition of land, etc., for ... 2129
- Standardization of Supplies—
  - Forms of specifications for use by various Departments in purchasing:
    - Butter ... 68, 129
    - Cheese ... 1082
    - Coal (to supersede previous specifications) ... 68, 129
    - Eggs ... 68, 129
    - Forage ... 68, 129

PAGE

- Fresh Fish, Oysters and Clams 1082
- Fresh Fruits and Vegetables 1082
- Fresh Meats 68, 129
- Milk, Condensed Milk, Cream and Buttermilk 1568
- Poultry 68, 129
- Salt and Dried Fish 1082
- Smoked, Dried and Pickled Meats 68, 129
- Stock Fruits and Vegetables 1082
- Supplies of all kinds purchased by City, standard form of bid etc., to be used by all Departments 1725

Standard Testing Laboratory:
- Application of Carl Pleasant for position in 2191
- Establishment of 1082, 1294, 2340
- Expenses connected with establishment, appropriation for 2340
- Positions and grades, establishment of 1701, 1843

Standardizing paving specifications, Convention of City Officials for, statement of expenses incurred 569, 1091

Standard Varnish Works—
- Permission to construct etc., pipe line under Richmond Terrace, Elm Park, Borough of Richmond
  - Application 2678

Starr, Frederick W., communication from, relative to additional hospital facilities for tuberculosis patients 3153

State Board of Charities, communications from relative to:
- Appropriation to Department of Public Charities for 1912 4282
- Improvements in Brooklyn Disciplinary Training School for Boys 2045
- Increasing force of Examiners in Department of Public Charities 1629, 4304
- Kings County Home for Aged and Infirm, Flatbush, accommodation of inmates 1314, 1769

State Commission on Prisons, report on inspection of Queens County Jail 148

Staten Island Association of Arts and Sciences, appropriation for moving plant and employment of additional force 994

Staten Island Rapid Transit Railway Company—
- Extension of time to complete construction of railway track across Richmond Terrace, Third Ward, Borough of Richmond:
  - Designation of newspapers 4261
  - Petition 2675
  - Preliminary public hearing 2931

Staten Island Rapid Transit Railway Company, reservation of fee to strip land under water at West New Brighton, Refuse Destructor 1365

Stationary Engineers in all City Departments, report relative to placing of, on annual compensation basis 1091

Steamfitter—
- Establishment of grade of position in all City Departments 585, 2123
- Provision for payment of increased compensation 589

Stein and Mandel, lienors of New York Contracting & Supply Co., in resettlement of claim 972

Stern & Sons, Inc., Joseph—
- Continuance of maintenance of pipe under and across West Fortieth street, Manhattan:
  - Acceptance by City of Agreement 1197

Stern, Benjamin I.—
- Compensation for use and occupation of unauthorized portion of a tunnel in West Twenty-second street, Manhattan:
  - Settlement of claim 44, 503

Stewart, David, appropriation for bill of costs for services as real estate expert 1600

Stewart, Sylvester, communication from relative to five cent fare to the seashore from any point in The City of New York 1770

Stocks and Bonds—
- Corporate Stock Budget (see Corporate Stock Budget).
- Corporate Stock:
  - American Museum of Natural History:
    - Construction of foundation for southeast wing and Court Building 3395

PAGE

  - Furnishing and equipping (amendment) 416
  - Purchase of cases, book stacks, etc. 3395
- Aquarium Building, Battery Park (new), construction of foundation and walls for the wings of 3394
- Aqueduct Commission, expenses for 3487
- Bellevue Hospital (new):
- Pathological Department and men's dormitory, equipping 353
  - Pavilions A and B, erection of roof ward and thirteen additional small balconies on 3420
  - Pavilions I and K, erection of, including architects' fees 3420
- Belmont avenue sewer, Borough of The Bronx, construction of (reduction in amount) 3314
- Borden Avenue Bridge over Dutchkills Creek, Borough of Queens, awards and interest for lands taken for 1070
- Borough Hall Park, Brooklyn, improvement of 3400
- Borough Map, Borough of Manhattan, completion of 3310
- Botanic Garden and Arboretum, Brooklyn:
  - Grading, draining, piping, soil improvement and water course. 3402
  - Greenhouses, construction and equipment 3402, 4342
  - Instruction Building, construction and equipment of 3402, 4341
  - Instruction Building, construction and equipment of (amended to read Laboratory Building) 4341
  - Laboratory Building, construction and equipment 4341, 4342
  - Plant houses, construction of (amended to read Laboratory Building and Greenhouses, including equipment) 4341
  - Roadways, walks, etc., construction of 3403
  - Rooms for instruction in botany, construction of (amended to read Laboratory Building and Greenhouses, including equipment) 4340
- Bridges, payment of awards, etc., for property acquired in connection with 3355
- Bridges, Department of:
  - Engineering and Construction Force:
    - Contingent expenses 3356
    - Salaries and wages 3355
- Bridges, highway, construction of:
  - Across Bronx River, connecting Becker avenue, The Bronx, with Wakefield avenue, Yonkers (reduction in amount) 3316
  - Across Bronx River and over tracks of the New York and Harlem and New York, New Haven and Hartford Railroad at East Two Hundred and Forty-first street 3313
- Bridge over Bronx River at Ludlow avenue, construction of 3357
- Bridge over Bronx River at One Hundred and Seventy-fourth street 3358
- Bridge over Eastchester Bay in Pelham Bay Park, removal of 1820
- Bridges over Gowanus Canal at Hamilton avenue, Brooklyn, damages for change of grade of streets 3434
- Bridge over Harlem River and approaches thereto, between One Hundred and Twenty-fifth street and First avenue and One Hundred and Thirty-fourth street and Willis avenue, expenses of Commissioners of Estimate and Appraisal 4282
- Bridge over Harlem River at Morris Heights, borings 3358
- Bronx and Pelham Parkway:
  - Completion of road from Botanical Garden 3405
- Bronx Court House, construction and equipment 3314
- Bronx Park, raising and improving low lands east of music pavilion 3405
- Bronx Parkway Commission:
  - Expenses of preparing maps and making researches of ownership of property 2724
- Brooklyn Disciplinary Training School for Boys, acquisition of site for new building 3425
- Brooklyn Water Shed:
  - Additions to pumping station buildings and permanent betterments 3441
  - Installation of additional equipment in pumping stations 3441

PAGE

- Brooklyn-Manhattan loop lines:
  - Acquisition of real estate for construction and operation...... 192, 3301
  - Acquisition of real estate for construction and operation (rescission of amount authorized) 3299
- Bureau of Buildings, Department of Education:
  - Contingencies and expenses connected with school building construction 1074
  - Contingencies, including surveys, borings, drafting, supplies, etc. 3336
  - Salaries and wages of Inspectors and Draftsmen.............. 3336
  - Salaries of Draftsmen, Inspectors, et al. 1754
- Bureau of Highways, Manhattan:
  - Asphalt repair plant, construction of.......................... 3307
  - Borough repair shop, construction and equipment of............ 3309
  - Corporation yard (new), construction and equipment of........ 3309
- Bureau of Street Cleaning, Richmond:
  - Construction of stable at Clifton............................ 3324
  - New stock or plant... 3325
- Carl Schurz Memorial at One Hundred and Sixteenth street and Morningside Park, erection of.......................... 3393
- Carnegie Library sites, acquisition of:
  - Borough of Manhattan 3423
  - Borough of The Bronx....................................... 3423
  - Borough of Brooklyn 3424
  - Borough of Queens.. 3424
- Central Library Building, Brooklyn, construction of.............. 4337
- Central Museum Building, Brooklyn, construction of.............. 3401, 3402
- Central Park:
  - Comfort Station:
    - Alteration and improvement of station near ballground.... 3389
    - Installation of drainage and water supply system in....... 3391
  - Paving drives 3390
  - Playgrounds, construction and equipment of (rescission of amount authorized) 3396
  - Sewer from Terrace Bridge, construction of................. 3390
  - Transverse roads, improvement of:
    - Sixty-fifth street 3391
    - Ninety-sixth street 3391
  - Water supply and irrigation system, installation of........... 3391
- Change of Grade Damage Commission:
  - Expenses for 1910 (reduction in amount authorized).......... 3431
  - Expenses for 1912 3430
  - Payment of awards, interest and counsel fees, as certified by... 2759
  - Payment of fees of expert witnesses employed by Corporation Counsel 3430
- Change of grade of streets, damages for (bridge over Gowanus Canal at Hamilton avenue, Brooklyn)........................ 3434
- Children's Court, First Division:
  - Building (new), at Eleventh street and Third avenue, Manhattan, erection of (reduction in amount)................ 3310
  - Building erection of, including architects' fees................ 3308
  - Site, acquisition of.. 3307
- Children's Museum Building, Bedford Park, Brooklyn, construction and equipment, including Engineer's and Architects' fees...... 3403
- Chlorination plant at Dunwoodie, Westchester County, construction of 3436
- Chlorination plants (4) on streams in Crotona water shed, construction of 3437
- City Hospital, Blackwells Island:
  - Dormitory for female employees, construction and equipment of 3381
- City Island road, The Bronx, rebuilding and widening from Bartow station to City Island Bridge.............................. 3405
- City Park, Brooklyn, erection and equipment of a shelter house in 3400
- Concrete culvert, to replace bridge at Norton's Creek, Edgemere, Borough of Queens, construction of........................ 3319

PAGE

Concrete retaining wall on Shore road, between Hoyt and Woolsey avenues, Borough of Queens, construction of 3320
Concrete sea wall on Willett's Point, Borough of Queens, construction of 3319
Concrete wing wall, construction of and repairing and extending rip-rap, on Jackson avenue, between Shell road and Flushing Bridge, Borough of Queens 3319
Cooper Square, Manhattan, erection and equipment of a comfort station in 3391
Cornell Dam Proceeding, (Eighth Supplementary) awards, expenses and Counsel fees 1817
County Clerk, New York County, purchase of steel filing cases, etc., for office of 3432
County Court House (new), at New Brighton, Borough of Richmond, acquisition of site and construction of building 3325
County Jail at Richmond, construction of wall or fence around 3325
Crematory for Borough of Queens, construction, acquisition or purchase of (reduction in amount) 3322
Crotona Park, The Bronx, improving easterly and westerly portions of 3406
Croton Falls Dam and Reservoir Proceedings:
  Awards, costs and Counsel fees 1377, 1816, 1881
  Engineering and contingent expenses 3487
  Payment of bills of Commissioners of Appraisal 1130, 2132
Cumberland Street Hospital, Brooklyn:
  Acquisition of site and construction of new building to replace present structure 3379
De Voe Park, The Bronx, completion of 3413
Docks and Ferries, Department of:
  Acquisition of property through condemnation proceedings 3350
  Construction and improvement of docks:
    Miscellaneous supplies 1418
    Payrolls of departmental employees 1418
  Construction force, salaries and wages of 3354
  Dredging waters of the Harbor of The City of New York 2312
  Ferryboat, new 3353
  Paving and re-paving marginal streets and surface of piers 2312
  Pier A, North River, construction of fireproof record room on 2311
  Piers, construction of:
    Cheever place, Harlem River (including wharf property) 3351
    East Thirty-eighth street, East River (new) 3350
    East One Hundred and Third street, East River (new) 3350
    Nott avenue, Long Island City, Borough of Queens 3351
    No. 43, North River (extension) 3351
    One Hundred and Thirty-fifth street, North River (new) 3350
    West Forty-fifth street, North River (extension) 3351
    West Forty-sixth street, North River (extension) 3352
    West Forty-seventh street, North River (extension) 3352
    West Forty-eighth street, North River (extension) 3352
    West Forty-ninth street, North River (extension) 3353
  Pier at foot of 33d street, Brooklyn, construction of shed on 2311
  Riverside Park extension, construction of rip-rap foundations and retaining walls, dredging, etc., in connection with 3353
  Shelter houses for longshoremen (2), construction of 3354
  Staten Island Ferry, construction of steel and concrete platform in rear of ferry house at St. George, Borough of Richmond, and rearranging railroad tracks on lower level 3354
  Thirty-ninth Street Ferry, construction of new ferry house in Brooklyn 3353
  Tug "Richmond," rebuilding 2311
Drainage and sewerage district plans, Borough of The Bronx, preparation of 3314
Drainage and sewerage district plans, Borough of The Bronx, preparation of, for 1910 (reduction in amount) 3315

PAGE

Drinking fountain at Boston road and Prospect avenue, The Bronx, erection of (rescision of authorization) 3315

Drinking fountains in various parks, Borough of The Bronx, construction of 3414

Dumping board (covered) at foot of Clinton street, East River, Manhattan, construction of 3426

Dumping board (covered) at foot of Lincoln avenue, Harlem River, The Bronx, construction of 3426

Dumping boards, in boroughs of Manhattan and Brooklyn, construction of (reduction in amount) 3428

Dyker Beach Park, Brooklyn, construction of lagoon in (reduction in amount) 3403

East New York and Pitkin avenues, Brooklyn, improvement of 3399

East New York Repair Yard, Department of Water Supply, Gas and Electricity, construction of building for stable and storage purposes 3440

Echo Park, The Bronx, general improvement of 3406

Education, Department of:
- Central Supply Depository, First avenue, Sixty-seventh and Sixty-eighth streets, Manhattan, acquisition of site and construction and equipment of building for 3348

Experimental sewage disposal plant, Borough of Richmond, construction and maintenance of 3324

Fire Department:
- Apparatus for all boroughs 3369
- Apparatus for boroughs of Manhattan, The Bronx, Brooklyn and Queens (amendment of previous authorization) 3371
- Bureau of Horse and Equipment, and apparatus repair building, St. Edwards and Bolivar streets, Brooklyn, improving, equipping, etc. (reduction in amount authorized) 3374
- Engine and Hook and Ladder Companies:
  - Sites and Buildings for:
    - Borough of Brooklyn:
      - Avenue C and East Sixteenth street (reduction in amount authorized) 3373
      - Pennsylvania and Riverdale avenues:
        - Site, acquisition of 3366
        - Building, erection of 3367
      - Richardson street, west of Meeker avenue, acquisition of site (amendment of authorization by substituting site on Richardson street, west of Leonard street) 3233
      - Seventy-ninth street, between Eleventh and Twelfth avenues, erection of building 3367
      - Stuyvesant avenue and Macon street (reduction in amount authorized) 3374
    - Borough of Manhattan:
      - Dyckman street and Broadway, site and building. 3371
    - Borough of Queens:
      - Benedict avenue and Fifth street, Woodhaven (reduction in amount authorized) 3374
      - Flushing and Ninth avenues, Whitestone:
        - Site, acquisition of 3366
        - Building, erection of 3365
      - Fresh Pond road and Myrtle avenue:
        - Site, acquisition of 3364
        - Building, erection of 3364
      - Grand and Columbia avenues, Maspeth:
        - Site, acquisition of 3363
        - Building, erection of 3363
      - Grand and Mulberry avenues, Corona:
        - Site, acquisition of 3362
        - Building, erection of 3362

PAGE

- Hoffman boulevard and Broadway, Elmhurst:
  - Site, acquisition of 3362
  - Building, erection of 3362
- Hoffman boulevard and Greenpoint avenue:
  - Site, acquisition of 3364
  - Building, erection of 3365
- Jamaica and Union avenues, Woodhaven:
  - Site, acquisition of........................ 3365
  - Building, erection of........................ 3365
- Main street, Nos. 78-80, Long Island City, improving and equipping building (reduction in amount authorized) 3375
- Metropolitan avenue and Fresh Pond road:
  - Site, acquisition of 3363
  - Building, erection of 3364

Borough of Richmond:

- Broad and Brook streets:
  - Building, erection of 3367
  - Site, acquisition of 3367
- Concord Section:
  - Building, erection of 3366
  - Site, acquisition of 3366
- Stapleton, in vicinity of Hook and Ladder Company, No. 102 (rescission of amount authorized) 3375

Borough of The Bronx:

- Ogden avenue, Highbridge (reduction in amount authorized) 3373
- Southern boulevard and Westchester avenue (reduction in amount authorized)........................ 3372
- Wendover and Washington avenues (reduction in amount authorized) 3373

Fire Alarm Telegraph System:

- Erection of stations at:
  - Central Park, Manhattan 3368
  - Eastern parkway and Prospect Park, Brooklyn........ 3368
  - St. Ann's avenue and Germain place, The Bronx...... 3368
- Extension of system in:
  - Boroughs of Manhattan, The Bronx and Brooklyn.... 3369
  - Borough of Queens 3369

Fire boats, construction and equipment of (reduction in amount authorized) 3371

Fire boat (new), construction and equipment of................ 3370

Hose wagons, aerial trucks and steam fire engines (new), purchase of (amendment of previous authorization).......... 3370

Firemen's Memorial, Riverside Drive, erection of foundation for.. 3393

Fireproof building for storage of Queens County records, construction of 3433

Fireproofing workhouse on Blackwells Island under jurisdiction of Department of Correction 3423

Fire protection work in public schools, all boroughs............... 4347

Fordham Hospital, Roof Ward, construction of.................... 3421

Forest Park, construction of roadways, paths, etc.................. 3397

Fort Greene Park, improvement of interior....................... 3399

Fresh Kills Bridge, Borough of Richmond, filling in southerly approach 3357

Furniture work for various Public Schools in Manhattan, The Bronx, Brooklyn and Queens 458, 3338

Gouverneur Hospital:

- Children's Ward, construction of........................ 3421
- Dispensary (new), construction of, including Architects' fees. 3420

Gowanus pipe yard, Brooklyn, Department of Water Supply, Gas and Electricity, construction of building for stable and storage purposes 3440

Grade Crossings, discontinuance and change of, in The Bronx:

- Awards for damages to lot 9, block 2881 1292
- Awards for damages to lot 211, block 2882 1069

PAGE

- Grade crossings in Borough of Richmond, elimination of 4343
- Grand boulevard and Concourse, planting trees on 3312
- Grand boulevard and Mosholu parkway, The Bronx:
  - Construction of connecting driveway between 3407
  - Planting trees on 3312
- Harlem Hospital:
  - Concrete flooring for six balconies 1310, 4311
  - Erection of power house, installation of electric lighting plant, laundry equipment, ambulance building, etc. (reduction in amount) 1310
  - Nurses' residence, construction of, including Architects' fees. 3420
  - Ward wing (additional), construction of 3420
- Health, Department of:
  - Construction of new buildings etc. (reduction in amount authorized) 2594, 2595
  - Tuberculosis Sanatorium, Otisville, New York:
    - Additional buildings for 2597, 2599
    - Erection of buildings, etc. (reduction in amount) 2598
    - Gravity water system, construction of, including completion of reservoir 3418
    - Shacks and other structures, construction of, by departmental labor 3418
- Highland Park, Borough of Queens, general improvement of, including erection of shelter and comfort house in 3400
- Highway bridge across Bronx River, connecting Becker avenue, The Bronx, with Wakefield avenue, Yonkers, construction of (reduction in amount) 3316
- Highway bridge across Bronx River and over tracks of the New York and Harlem and New York, New Haven and Hartford Railroad at East Two Hundred and Forty-first street, construction of 3313
- Hospital for Contagious Diseases, in the Borough of Queens, construction of 3418
- Hospital for Contagious Diseases in the Borough of The Bronx, construction of 3418
- Irving place, Borough of Manhattan, extension of, in connection with Lexington avenue subway 4349
- Jamaica Bay Improvement and Development 657, 3430
- Jerome Park Reservoir:
  - Completion of Easterly Basin of (reduction in amount) 1887
  - Completion of Easterly Basin and construction and installation of Filtration Plant 1888
- John Jay Park, Manhattan:
  - Improvement and completion of 3395
  - Improvement of street on westerly side, between Seventy-sixth and Seventy-eighth streets 3392
- Junction of Franklin and Third avenues, Borough of The Bronx, improvement of (rescission of authorization) 3316
- Junction of Third avenue and Boston road, Borough of The Bronx, improvement of 3312
- Kings County Hospital, Brooklyn:
  - Bakery, construction and equipment of an addition to 3381
  - Electric feeders for power and light, purchase and installation of 3377
  - Heating and power plant, erection and equipment of an addition to 3377
  - Main heating tunnel, extension to 3378
  - Psychopathic Ward, construction and equipment of an extension to 3380
  - Sewer mains, construction of 3378
  - Staff house, construction and equipment of 3380
  - West wing, furnishing and equipping 3377
- Kings Park, Jamaica, erection of comfort house in 3401
- Kingston Avenue Hospital, Brooklyn:
  - Kitchen building, help's dining-room and dormitories, construction of 3417

PAGE
  Sewer lines and outside tanks, construction of 3417
Lexington Avenue Subway, construction of sections, viz.:
  No. 6—East Twenty-sixth street, under Lexington avenue, to East Fortieth street 4251
  No. 7—East Fortieth street, under Lexington avenue, to East Fifty-third street 4252
  No. 8—East Fifty-third street, under Lexington avenue, to East Sixty-seventh street 4252
  No. 10—East Seventy-ninth street, under Lexington avenue, to East Ninety-third street 4253
  No. 11—East Ninety-third street, under Lexington avenue, to East One Hundred and Sixth street 4254
Linden Park Brooklyn:
  Erection of comfort house in 3400
  Improvement of 3399
McCarren Park, Brooklyn, improvement of plot No. 2 3401
Macombs Dam Park, The Bronx, drainage system for lowlands in 3406
Madison Avenue Bridge, construction of Administration Building at Manhattan approach 3356
Manhattan Bridge:
  Brooklyn Terminal:
    Awards and interest for lands taken for 2342
    Lands etc., for Plaza, acquisition of 2601
    Retaining walls, sidewalks, railways, stairways, etc. (reduction in amount) 419, 872
  Completion of terminals, Architects' services for (increase in amount) 420
  Improving streets and property under bridge, and miscellaneous improvements 3356
  Manhattan Terminal:
    Awards and interest for lands taken for 1882, 2130
    Retaining walls, sidewalk, buildings, stairways, change of grade, etc. (reduction in amount) 418, 782
    Retaining walls, sidewalk, walks, etc., arch and colonade (reduction in amount) 419
    Terminal Building and elevated structure connecting building with bridge tracks (reduction in amount) 419, 782
Manhattan-Bronx Rapid Transit Railroad:
  Acquisition of real estate for construction and operation 4359
  Station at One Hundred and Ninety-first street, construction of 1644
Metropolitan Avenue Bridge over English Kills, Borough of Queens 3359
Metropolitan Hospital, Blackwells Island:
  Boilers in heating plant (additional), installation of 3379
  Dining hall and kitchen for tuberculosis patients, construction and equipment of 3380
  Dormitory for female employees, construction of 3382
  Dormitory for male employees, construction of 3380
  East Tuberculosis Infirmary, erection and equipment of an extension to 3382
  Remodeling tower of main building into operating rooms 3382
Metropolitan Museum of Art:
  Boiler plant, erection and equipment of 3393
  Extension "H," completion and equipment of 3395
  Furniture and fittings for, purchase of 3394
  Museum cases, purchase of 3394
Mount Kisco, New York, acquisition of land in, for protection of water supply system 4409
Municipal Building, Brooklyn, acquisition of land, and construction of 4339
New Grant City pumping station, Richmond, Department of Water Supply, Gas and Electricity, installing engines, boilers and electrical equipment in 3444
New Utrecht pumping station, Brooklyn, Department of Water Supply, Gas and Electricity, construction of additions to 3440
North Portland avenue repair yard, Brooklyn, Department of Water Supply, Gas and Electricity, construction of building for stable,

PAGE

- garage and storage purposes ... 3440
- New York and Brooklyn Bridge:
  - Extension of Manhattan Terminal:
    - Acquisition of lands, etc. ... 1375, 2759
    - Awards and interest for land taken for ... 2285
    - Services of Herbert C. Plass in matter of acquiring title to lands ... 2600
  - Miscellaneous improvements ... 3356
- New York Botanical Garden:
  - Boundary fence, construction of ... 3412
  - Cases (new), for books and specimens for Museum Building 3413
  - Greenhouse, erection of an additional ... 3413
  - Masonry retaining walls at Boulevard entrance, and masonry steps at power house, construction of ... 3412
  - Pergola, erection of ... 3413
  - Rock and earth excavation and disposal within grounds ... 3412
  - Walks (new) and railings along walks, construction of ... 3412
- New York City Children's Hospitals and Schools, Randalls Island:
  - Boiler house and heating plant, construction and equipment of .. 3379
  - Laundry plant, construction and equipment of ... 3381
- New York City Farm Colony, Richmond:
  - Kitchen, dining hall, service building and bakery, construction and equipment of ... 3378
  - Laundry, construction and equipment of ... 3378
- New York Zoological Park:
  - Fences, guard rails, yards, planting trees and other permanent improvements ... 3411
  - Power plant and workshop building, erection and equipment of 3410
  - Public Service Building, erection and equipment of ... 3410
  - Rocking Stone Restaurant, erection of an extension to ... 3411
  - Walks (new), construction of ... 3411
  - Winter house for pelicans, erection and equipment of ... 3410
  - Zebra house yard, construction of ... 3410
- Normal College, interior construction and equipment ... 3425
- Ocean Avenue Bridge, over Sheepshead Bay, Brooklyn, borings... 3358
- Ocean Parkway—Brooklyn:
  - Construction of sidewalks ... 3397
  - Raising parkway south of Coney Island Creek ... 3397
- One Hundred and Sixty-fifth street, The Bronx, regulating, grading and paving ... 3312
- Parks, Borough of The Bronx, fencing the boundaries of ... 3407
- Parks, improvements in, preliminary work in connection with, viz.:
  - Boroughs of Brooklyn and Queens ... 3401
  - Borough of Manhattan ... 3390
  - Borough of The Bronx ... 3406
- Pelham Bay Park:
  - Bathing beaches, increasing and improving shore front of ... 3408
  - Bath houses (additional), and comfort station, erection of... 3408
  - Draining meadow land ... 3408
- Pelham Bridge over Eastchester Bay in Pelham Bay Park, removal of old bridge and restoration of site ... 1820
- Pianos for Public Schools in Manhattan, The Bronx, Brooklyn and Queens ... 458
- Playhouses and toilet facilities in playgrounds throughout the City, erection and equipment of ... 3392
- Plots on Prospect avenue, The Bronx, sodding (reduction in amount) ... 3316
- Police Department:
  - Station houses, prisons and stables for:
    - Eighteenth Police Precinct, land and building ... 3422
    - Fifteenth Police Precinct, land and building ... 3422
    - New Precinct in The Bronx, land and building ... 3422
- Property for bridge purposes, awards, interest and costs ... 3355
- Prospect Park:
  - Comfort station (new), erection of ... 3398

PAGE

  - Plaza at Fifteenth street entrance, improvement of 3398
  - Storehouse and workshop (new), erection and equipment of. 3398
  - Water supply system, installation of 3398
- Public Baths:
  - Borough of Manhattan:
    - Construction of new baths and contingent expenses 3308
    - Installation of pools in existing baths 3308
  - Borough of Queens:
    - Construction of interior public bath in Ridgewood 3320
- Public Charities, Department of:
  - Erection of new buildings, additions, improving and permanently bettering and equipping existing buildings and new steamboats (reduction in amount) 3382
  - Erection of new buildings and for additions, improvements and permanently bettering existing buildings 583, 3385
  - New buildings, additions, etc. (reduction in amount) 583
  - New York City Farm Colony, furniture and fixtures for dormitory 753
  - Sea View Hospital, Staten Island, erection and completion of.. 1071, 1583
- Public comfort stations:
  - Borough of Brooklyn:
    - Construction and equipment of two 3317
  - Borough of Manhattan:
    - Construction and equipment, including Architects' fees.. 3308
  - Borough of Queens:
    - Construction of, at:
      - Queensboro Bridge Plaza 3320
      - Ridgewood 3320
  - Borough of The Bronx:
    - Construction of bath at One Hundred and Thirty-eighth street and Third avenue 3313
- Public driveway, between One Hundred and Fifty-fifth and Dyckman streets, construction of stone bulkhead along easterly boundary of 3392
- Public Library, Auburn Place and St. Edwards street, Brooklyn, payment of bill for services of Expert in connection with acquisition of title to property for 1069
- Public Schools:
  - Bay Ridge High School, Brooklyn, interior construction and equipment of 3337
  - Bushwick High School, Brooklyn, interior construction and equipment of 3337
  - Elementary school buildings in Manhattan and Brooklyn construction of (reduction in amount) 452, 3338
  - Equipment of school buildings under construction, including electric, heating and ventilating and furniture work, etc., (reduction in amount) 3183, 3342, 3346
  - Erasmus Hall High School, Brooklyn, furniture, etc., for 4552, 3338
  - Girls' High School, Brooklyn, furniture work for addition.... 455
  - High school buildings in Brooklyn and elementary school buildings in Manhattan, The Bronx, Brooklyn and Queens, improvement of and additions to (reduction in amount).. 455
  - High school, Irving and Putnam avenues and Madison street, Brooklyn, equipment of (amendment) 100
  - High School (new), Borough of The Bronx, acquisition of site and construction and equipment of building 3348
  - High School on Whitestone avenue, between Broadway and State street, Flushing, Borough of Queens, construction of building 3348
  - Interior construction and equipment of various school buildings in Manhattan and Brooklyn 3183
  - New buildings and additions in Manhattan and Brooklyn, construction of (reduction in amount) 455, 3338
  - New York Parental School, Flushing, construction and equipment of six cottages and stable for 3332

PAGE

- Borough of Brooklyn:
  - Construction and equipment of new buildings on:
    - Blake avenue, between Hopkinson avenue and Bristol street ... 3331
    - Dumont avenue, between Alabama and Williams avenues ... 3331
    - East Ninth and Tenth streets, between Avenues K and L ... 3332
    - Fourth avenues, Twenty-ninth and Thirtieth streets .. 3331
    - Pennsylvania avenue, between Liberty and Glenmore avenues ... 3331
  - Construction and equipment of new buildings on following sites, when acquired:
    - South and east of site on Twelfth avenue, Sixty-fourth and Sixty-fifth streets ... 3335
    - Vicinity of South Third street and Driggs avenue (new Public School No. 50) ... 3335
  - Construction of Public School No. 28 ... 3348
  - Construction of two portable school buildings on grounds of Public School No. 97, Benson and Twenty-fifth avenues ... 3336
- Borough of Manhattan:
  - Construction and equipment of:
    - New building on West One Hundred and Seventy-sixth and One Hundred and Seventy-seventh streets, east of St. Nicholas avenue ... 3330
    - New building in vicinity of Williamsburg Bridge ... 3348
    - No. 72, One Hundred and Fifth street and Lexington avenue (addition) ... 3330
    - No. 78, Pleasant avenue and One Hundred and Nineteenth street (addition) ... 1077
    - No. 102 (new), One Hundred and Thirteenth street east of Second avenue ... 3330
    - No. 132, One Hundred and Eighty-second street and Wadsworth avenue (addition) ... 1581
    - No. 137, construction and equipment of an addition to. 132, 1580
- Borough of Queens:
  - Construction and equipment of:
    - No. 45, Three-Mile road, Jamaica South (addition) ... 3332
    - No. 49, Brenton avenue, Jamaica (addition) ... 3332
    - No. 71, Forest avenue, East Williamsburg ... 3332
  - Construction and equipment of new buildings on following sites, when acquired:
    - Fairview avenue and Hillside avenue, Corona Heights. 3336
    - Hillside avenue and Cherry street, Douglaston ... 3335
- Borough of Richmond:
  - Construction and equipment of new Public School No. 22, Washington and Columbus avenues, Graniteville ... 3333
- Borough of The Bronx:
  - Construction, equipment and electrical work for additions to:
    - No. 20, Fox, Simpson and One Hundred and Sixty-seventh streets ... 1023
    - No. 39, Longwood avenue ... 1023
  - Construction and equipment of:
    - No. 43, Brown place and One Hundred and Thirty-third street (addition) ... 1023
    - No. 45, One Hundred and Eighty-ninth street and Hoffman street and Lorillard place ... 1808
    - Portable school buildings on Spofford avenue, between Coster and Faile streets ... 1821
  - Construction and equipment of new buildings on following sites, when acquired:
    - Vicinity of One Hundred and Sixty-eighth street, Park and Washington avenues ... 3334

PAGE

Vicinity of Tinton avenue and East One Hundred and Sixty-third street 3334
Vicinity of Union avenue and East One Hundred and Fifty-fifth street 3334
Vicinity of Vyse and Bryant avenues and One Hundred and Seventy-third street 3334
Public School sites:
  Awards and costs in school site proceedings, equipment and construction work in various school buildings, etc. (amendment) 3183
  Borough of Brooklyn:
    Bay Ridge High School (reduction in amount)...... 3348
    Blake avenue, between Bristol street and Hopkinson avenue 1421
    Dumont avenue, between Williams and Alabama avenues 1421
    Pennsylvania avenue, between Liberty and Glenmore avenues 1421
    South Third and Driggs avenue 3333
    Twelfth avenue, Sixty-fourth and Sixty-fifth streets.. 3333
  Borough of Manhattan:
    Vicinity of Williamsburg Bridge 3348
    West One Hundred and Seventy-sixth and One Hundred and Seventy-seventh streets, between St. Nicholas and Audubon avenues 1421
  Borough of Queens:
    Broadway, Whitestone avenue and State street, Flushing 1421
    Fairview avenue and Hillside avenue, Corona Heights. 3333
    Hillside avenue and Cherry street, Douglaston........ 3333
    Orchard avenue and Elm street, Richmond Hill, adjoining site of Public School No. 56............. 427
  Borough of Richmond:
    Washington and Columbus avenues, Graniteville...... 2333
  Borough of The Bronx:
    One Hundred and Sixty-eighth street, Park and Washington avenues 3333
    Tinton avenue and East One Hundred and Third street 3333
    Union avenue and East One Hundred and Fifty-fifth street 3333
    Vyse and Bryant avenues and One Hundred and Seventy-third street 3333
  Costs, charges and expenses incidental to condemnation of school sites 3337
  Site on Hamilton place, west of One Hundred and Fortieth and One Hundred and Forty-first streets, Manhattan, payment of awards and interest in proceeding to acquire 3337
Queensboro Bridge awards, interest, costs and expenses for lands taken in blocks bounded by Avenue A, First avenue, Fifty-ninth and Sixtieth street, Manhattan................1131, 1376, 2131, 4281
Queens County records, construction of building and purchase of steel filing cases for storage of (Surrogate and County Clerk's) 3433
Refuse destructors, stables and section houses, construction of:
  Borough of Richmond:
    Clifton:
      Engineer's house 3323
      Grading and construction of retaining wall............ 3324
    Tottenville:
      Building 3323
      Site, acquisition of 3323
  Borough of Queens:
    Ridgewood 3320
    Rockaway 3320
Relief Sewers in Gold street, Classon avenue, Myrtle avenue, etc., Brooklyn, construction of (rescission of amount authorized).. 1608
  All boroughs 1047
Repaving:

PAGE
- Borough of Manhattan 3309
- Borough of Queens 3321
- Borough of The Bronx.................................... 3314

Ridgewood pumping station, Department of Water Supply, Gas and Electricity, fencing and improving grounds................ 3441
Riverside Drive Extension, north of One Hundred and Fifty-fifth street to connect with proposed Henry Hudson Memorial Viaduct (reduction in amount) 1442
Riverside Hospital, The Bronx:
- Boiler house and tunnel system, construction of.............. 3415
- Concrete pavilion for tuberculosis patients, construction of.... 3416
- Concrete pavilion for use as a hospital for venereal diseases, construction of 3416
- Dormitory for female help, construction of................... 3416
- Improving roads and new roads............................ 3417
- Lighting fixtures and other equipment for operation and maintenance of two new concrete pavilions..................... 3417
- Nurses' Home, construction of an extension to................ 3416

Riverside Park, between One Hundred and Twenty-second street and Claremont place, Manhattan, completion of addition to.... 3392
St. George Ferry Terminal, paving approach..................... 284
St. Marys Park:
- Improving southerly portion of 3405
- Laying asphalt walks in 1398

Seventh avenue, Manhattan, extension of........................ 3309
Seventh avenue parkway, Manhattan, general improvement of, from Central Park to Harlem River 3393
Sewers:
- Borough of Manhattan:
  - Reconstruction of 3310
  - Reconstruction of (restoring amount of authorization).... 100
  - Seventy-ninth street and East River, Manhattan, construction of an extension 957, 1179
  - Under pier at foot of West One Hundred and Twenty-ninth street, Manhattan, construction of double barrel sewer 1154

Sea View Hospital:
- Erection and completion of................................ 3381
- Sanitary sewer, acquisition of easement in connection with construction of 3324

Silver Lake Park, Borough of Richmond, improvement of........ 4340
Storage yard, Borough of Richmond, acquisition of land and construction of building in Second and Fourth Wards............ 3324
Street and park openings, replenishment of fund, for:
- Expenses connected with examination of titles to property acquired by City 1066
- Extending addition to St. Nicholas Park, Manhattan.......... 1131
- Extending Canal place, from East One Hundred and Thirty-eighth to East One Hundred and Forty-fourth streets, The Bronx 1067
- Opening and extending an addition to Crotona Park.......... 1374
- Opening and extending Clason's Point road, The Bronx, from Westchester avenue to the East River................... 4281
- Payment of costs and expenses connected with acquisition of lands etc., for "The Speedway" 2130
- Widening Riverside Drive, between One Hundred and Thirty-ninth and One Hundred and Forty-second streets........ 1068

Street Cleaning, Department of:
- Covered dumping boards, construction of:
  - Foot of Clinton street, East River, Manhattan............ 3426
  - Foot of Lincoln avenue, Harlem River, The Bronx....... 3426
- Dumping boards in Manhattan and Brooklyn, construction of (reduction in amount) 3315
- Elevator in Stable "A," Seventeenth street and Avenue A, Manhattan, installation of (reduction in amount).............. 3428

PAGE

  Stable on block bounded by Flushing avenue, Graham street, Kent avenue and Little Nassau street, Brooklyn, construction of (amended by reducing amount to provide for acquisition of site and construction of stable for Borough of Brooklyn) 3427
Sunset Park, Brooklyn, completion of 3399
Third Avenue Bridge over Harlem River, electrical equipment of 3358
Topographical work:
  All boroughs 724
  Borough of Brooklyn 173, 3317
  Borough of Manhattan 549, 3310
  Borough of Queens 182, 3321
  Borough of Richmond 3325
  Borough of The Bronx 3314
Transverse road at One Hundred and Sixty-first street, The Bronx, construction of 3312
Transverse road at One Hundred and Seventieth and One Hundred and Seventy-fourth streets, in connection with Grand Boulevard and Concourse, The Bronx, construction of (amendment) 1585, 2070
Triangle at East New York and Pitkin avenues, Brooklyn, improvement of 3399
Tuberculosis Sanatorium at Otisville, N. Y.:
  Additional buildings for 2597, 2599
  Erection of buildings, etc. (reduction in amount) 2598
  Gravity water system, construction of, including completion of reservoir 3418
  Shacks and other structures, construction of by departmental labor 3418
Van Cortlandt Park:
  Colonial Mansion, erection of an addition to and installation of heating plant in 3409
  Comfort station near Van Cortlandt Mansion, erection of 3408
  Drainage of swamp lands other than those south of Colonial Garden 3409
  Drain to sewer in Broadway, completing the construction of 3414
  Rock cut on Broadway side of park, improvement of 3409
  Water supply system for nursery 3409
Varick street, Manhattan, widening and extending 3309
Water Supply, Gas and Electricity, Department of:
  Additional water fund, replenishing 3487
  Brooklyn Water Shed:
    Additions to pumping station buildings and permanent betterments 3441
    Installation of additional equipment in pumping stations 3441
  Chlorination plants, construction of:
    Dunwoodie, Westchester County 3436
    Croton Water Shed 3437
  Clove pumping stations, Richmond, installing additional boilers at 3444
  Distribution mains and appurtenances:
    Borough of Brooklyn:
      Cross connecting old mains in district bounded by the City line, Flushing avenue, Sumner avenue, Atlantic avenue, Broadway and Granite street 3437
      Furnishing and laying:
        Sixteen-inch main in Fulton street, from Howard avenue to Classon avenue 3438
        Sixteen-inch main in Hopkinson avenue, from Broadway to Fulton street 3438
        Small mains and appurtenances 3437
        Twenty-inch main in Broadway, from Jamaica avenue to Rockaway avenue 3438
        Twenty-inch main in Nostrand avenue, from Woodruff avenue to Flatbush avenue 3439

- Borough of Brooklyn 3318
  - Boroughs of Manhattan and The Bronx:
    - Furnishing and laying small mains 3436
  - Borough of Queens:
    - Furnishing and laying:
      - Additional small mains 3442
      - Thirty-inch main in Fresh Meadow road, North Hempstead turnpike, Jamaica avenue and Union avenue 3442
      - Two twenty-four-inch mains from Bayside pumping station to the Flushing stand pipe 3442
  - Borough of Richmond:
    - Furnishing and laying additional small mains 3443
- East New York repair yard, Brooklyn, construction of building for use as a stable for headquarters for machine shop and for storage purposes 3440
- Engineering and labor construction force, all boroughs, contingent expenses 3445
- Engineering construction force, all boroughs, salaries and wages 3444
- Gowanus pipe yard, Brooklyn, construction of building for use as a stable for headquarters and for storage purposes 3440
- Hydrants and appurtenances (double-nozzle), furnishing and setting five hundred additional in Brooklyn, for fire protection purposes 3439
- Labor construction force:
  - Borough of Brooklyn:
    - Salaries and wages, payment of 3441
    - Supplies and materials, purchase of 3439
  - Boroughs of Manhattan and The Bronx:
    - Salaries and wages, payment of 3437
    - Supplies and materials 3436
  - Borough of Queens:
    - Salaries and wages, payment of 3443
    - Supplies and materials 3442
  - Borough of Richmond:
    - Salaries and wages, payment of 3444
    - Supplies and materials, purchase of 3443
- Mount Kisco, New York, acquisition of land in for protection of water supply 4409
- New Grant City pumping station, Richmond, furnishing and installing necessary engines, boilers and appurtenances and electrical equipment in 3444
- New Utrecht pumping station building, Brooklyn, additions to and use of as a storage repair yard 3440
- North Portland avenue repair yard, Brooklyn, construction of building to be used as a stable and garage for headquarters for repair shops and for storage purposes 3440
- Ridgewood pumping station, Brooklyn, fencing and improving grounds 3441
- West New Brighton pumping station:
  - Construction of building for headquarters for repair shops and for storage purposes 3443
  - Extension of present building and erection of additional pump 3444

Water pipes and appurtenances of various companies and individuals in Brooklyn, purchase of 2813

Water supply for Brooklyn, additional, two driven well stations at Parkville and Flatlands (amendment) 1012, 1553

Water supply system, acquisition of land in Mount Kisco, for protection of 4409

Webster avenue storm relief sewer, construction of (reduction in amount) 3315

Widening, regrading, repaving, etc., certain streets in Borough of Manhattan 1442

Willard Parker and Reception Hospitals:
- Pavilion for measles patients, construction of 3419

PAGE

  - Underground tunnel, construction of ... 3415
- Williamsburg Bridge, alterations in Manhattan subway station and additional stairway ... 3357
- Willis Avenue Bridge over Harlem River, electrical equipment of .. 3358
- West New Brighton pumping station, Richmond, Department of Water Supply, Gas and Electricity:
  - Construction of building for headquarters for repair shops and for storage purposes ... 3443
  - Extension of present building and erection of additional pump and boilers at the Clove pumping station ... 3444
  - Workhouse, Blackwells Island, fireproofing ... 3423

Special Revenue Bonds:
- Automobile Enginemen (three), in office of President of the Borough of Queens, salaries for portion of 1911 ... 3287
- Automobile for Commissioner of Weights and Measures, Mayor's Office ... 2833
- Automobiles (two), for Department of Bridges, purchase of ... 3121
- Bellevue and Allied Hospitals:
  - Compensation of Engineers and Mechanic for operation of boiler house and coaling station, etc., New Bellevue ... 1142
  - Converting Ward 31 into an isolation ward ... 1074
  - Salaries of additional trained nurses, for the year 1911 ... 2331
  - Salaries of trained nurses and hospital attendants ... 1775
  - Training School for midwives, establishment of ... 2346, 2786
- Board of Aldermen and City Clerk:
  - Assistant Sergeant-at-Arms, equalizing salaries of ... 3280
  - Auctioneer's Process Server, increase in salary of ... 3280
  - Contingent expenses in 1910 of Deputy City Clerk, Borough of Brooklyn ... 2452
  - Contingent expenses in 1910 of Deputy City Clerk, Borough of Richmond ... 2452
  - Deficiency in contingent account for 1910 ... 359
  - Increases in salaries of employees ... 1979
  - Services of Stenographer for special committee on Municipal Use of Automobiles ... 1124, 2156
- Board of Estimate and Apportionment, deficit in salaries account for the year 1911 ... 2708
- Boring machine belonging to Department of Docks and Ferries, compensation for loan of to the President of The Bronx ... 3293
- Botanical Garden and Arboretum on park lands, Brooklyn, preliminary expenses in connection with establishment of ... 1363
- Bridge Department, increase in compensation of Mechanics and Riveters in ... 384
- Bureau of Buildings, Borough of Queens, employment of additional Inspectors in ... 4415
- Bureau of Licenses, Mayor's Office:
  - Automobile Engineman, salary of ... 4437
  - Automobile, purchase of ... 3136
  - Laborer, in Division of Taxicabs, wages of ... 1777
  - Stenographer and Typewriter, salary of ... 3276
- Bureau of Public Buildings and Offices, Borough of Queens:
  - Employment of additional help ... 2302
  - Increase in salary of Foreman of Plumbers ... 3291
  - Increasing wages of a Tinsmith ... 2302
- Bureau of Sewers, Borough of The Bronx, payment of Laborers for emergency and overtime work ... 1805
- Bureau of Street Cleaning, Borough of Queens, continuance of operations of during year 1911 ... 3180
- Bureau of Street Cleaning, Borough of Richmond:
  - Purchase of street flushing machines ... 3302
  - Snow removal, deficiency in appropriation for ... 162
- Central Park, regenerating lawns ... 3285
- Children's Bureau, Department of Public Charities, Brooklyn, employment of additional force ... 3256
- City Magistrates' Courts, First Division:
  - Equipment, furniture and fixtures ... 2606

PAGE

- Law library, purchase of 1041
- Salary of temporary City Magistrate 161, 2792

City Magistrates' Courts, Second Division:
- Furniture and equipment for Court room and offices of Chief City Magistrate, and rooms of the Board of City Magistrates 3177
- Law library, purchase of 3177
- Furniture and equipment for Fourth District Court, Borough of Queens 1904

College of The City of New York, installation of fireproof apparatus, etc. 1778

Coroners, Brooklyn, furnishing and equipping offices for 2328

Coroners, Manhattan, furnishing offices in building No. 70-74 Lafayette street 768, 2329

County Clerks:
- Kings County:
  - Compensation of a Copyist and a Clerk 1822
  - Equipment of Naturalization Bureau, Supreme Court 1822
- New York County:
  - Deficiency in contingent account for 1910 350
  - Salary of a Confidential Stenographer 2153
- Richmond County:
  - Temporary Copyists, employment of 3009

County Court, Kings County, New Parts III and IV:
- Furniture, etc. 1507
- Stenographers, compensation of 1509

Court of Special Sessions:
- Additional court room in Criminal Courts Building, Manhattan 972
- Attendants, compensation of 1657, 1985
- Children's Court, Borough of Richmond, equipment of 2069
- Deficiency in contingent account for 1910 730
- Equipment, supplies, etc. 103
- Furniture and equipment for additional court rooms 972
- Furniture and equipment for additional court rooms, offices and Justices' Chambers 2068
- Increase in salaries of seven Associate Justices 1007
- Probation Department, equipping offices in Ashland Building for 2159, 3283
- Probation Officers, salaries of additional 2338
- Rent of office of Chief Justice 2069
- Stenographer and Typewriter in office of Chief Probation officer, compensation of 1985

District Attorney:
- Kings County:
  - Deficit in contingent accounts for 1908, 1909 and 1910 1450
  - Salaries of seven Process Servers 1121
- New York County:
  - Conduct of investigations relating to the Triangle Waist Company fire disaster, and the failure of the Northern Bank, etc. 2045
- Queens County:
  - Deficiency in contingent account for 1910 816
- Richmond County:
  - Salary of Process Server 2784

Education, Department of:
- General repairs, replenishing account for 3294

Evening Playgrounds, music and equipment for 2153

Ferryboats (2) for Thirty-ninth street ferry, charter of 353

Ferries between Broadway, Brooklyn and Twenty-third and Roosevelt streets, Manhattan, operation of 1398

Fire escapes on City buildings in Pelham Bay Park 2455

Fire escapes on Turnbull Mansion at Bartow-on-the-Sound, The Bronx, erection of 442

Floating baths, in the Borough of The Bronx, maintenance of two. 2173

PAGE

- Fourth of July celebration, expenses of 2125
- Headstones over graves of deceased soldiers and sailors in Brooklyn 1119
- Health, Department of:
  - Fire protection equipment and apparatus, and maintenance of systems 2689
  - Food supplies for tuberculosis patients in Day Camps located upon Ferryboats "Middletown" and "Susquehanna" 1984
  - Purchasing supplies and payment of wages at Tuberculosis Sanatorium, Otisville, N. Y. 2347
- Hudson-Fulton celebration, expenses contingent to part taken by The City of New York 348
- Keepers at Penitentiary, Blackwells Island, salaries of additional 3285
- Kings County Hospital, establishment of ambulance service for insane patients, at 4429
- Litigation against the State of New Jersey and the Passaic Valley Sewerage Commission, expenses connected with securing an injunction restraining the discharge of sewage into New York Harbor 3019
- Municipal Bath, Coney Island, salaries of employees in 3069
- Municipal Civil Service Commission:
  - Clerk, salary of 4426
  - Examiners, per diem, and Expert, employment of 1623
  - Investigators (two), salaries of 4426
  - Fireproof safes, installation of 4426
- Municipal Court, Third District, Borough of Queens, furniture and fittings for 950
- Municipal Explosives Commission:
  - Fees and expenses for 1910 158
  - Fees and expenses for 1911 2731
- Municipal garage fund, establishment of in Department of Bridges 423
- New York and Brooklyn Bridge, maintenance of 4432
- New York Public Library, purchase of coal for 1918
- Parks, Department of:
  - Boroughs of Manhattan and Richmond:
    - Automobile, purchase of 2728
    - Concerts in parks, armories, etc., furnishing additional 2454
    - Pipe-fitter, increase in wages of 2700
    - Wheelwright, increase in wages of 2349
  - Borough of The Bronx:
    - Automobile, purchase of 2790
    - Fire escapes on City buildings in Pelham Bay Park, used by the Jacob Riis Neighborhood Settlement and the Little Mother's Aid Association, erection of 2455
    - Fire escapes on Turnbull Mansion at Bartow-on-the-Sound, erection of 4425
- Police Department:
  - Assistant Engineer, increase in salary of 2699
  - Job Compositors, increase in wages of 2351
  - Plumbers, increase in wages of 2352
  - Roofer (metal), increase in wages of 2351
  - Stationary Engineer, increase in salary of 2699
- Public Charities, Department of:
  - Bakers, increase in salaries of nine 96
  - Children's Bureau, Brooklyn, employment of additional force 3256
  - Clerk, increase in salary of 1622
  - Payment of salaries in several divisions of the Department for portion of the year 1911 3225, 4424
  - Stenographer and Typewriter, increase in salary of 1622
  - Trained Nurses at New York City Training School, and Metropolitan Hospital Training School for Nurses, salaries of additional 3120, 3277
  - Trained Nurse in Cumberland Street Hospital, Brooklyn, salary of 3120
- Public Service Commission:
  - Salaries and expenses for 1910 92

PAGE
  Salaries and expenses for 1911 ... 91, 3012
  Securing borings along routes of proposed rapid transit construction ... 3012
Rent of offices for County Government ... 3279
Repair of street pavements in Manhattan, where period of maintenance has not expired, replenishment of fund for ... 819, 3282
Repairs to pavement of White Plains avenue, The Bronx, from Morris street to city line ... 2789
Restoration of old and mutilated records during 1911, office of Commissioner of Records, New York County ... 1145
Richmond County Society for Prevention of Cruelty to Children, reimbursing for expense of caring for children held for arraignment in Children's Court ... 3258
Sewer foot of Fifth avenue, College Point, Borough of Queens, dredging at mouth of ... 1120
Sewer foot of South Sixth street, Brooklyn, construction of an outlet to ... 1399
Sewers, St. Nicholas and Myrtle avenues, Borough of Queens, removing deposit from, etc ... 1771
Sheriff of Richmond County, for expenses incurred in 1909 by late Sheriff Barth ... 949
Standard Testing Laboratory, expenses connected with establishment of ... 2341
Steam Rollers and Engineers, for repairing and resurfacing roads in the Borough of Queens, hire of ... 2157
Steel file and map cases, purchase and installation, and alterations to old cases, Office of Commissioner of Records, Kings County ... 3132
Street Cleaning, Department of:
  Plumbers, increase in wages of ... 3275
  Removal of snow and ice—
    Borough of Brooklyn ... 189, 446, 666, 734, 784, 980, 1490
    Borough of Manhattan ... 175, 189, 446, 666, 734, 784, 980, 1490
    Borough of The Bronx ... 666, 734, 784
  Rubber hose, hose carriages and couplings, purchase of ... 1917
  Street Cleaning Machines, hire of from Emerson Contracting Company ... 3138
  Tinsmiths in Department of Street Cleaning, increase in wages of ... 3275
Sub-surface structures in the Borough of Richmond, expenses of Engineering force connected with work of locating, recording and mapping ... 4427
Surrogate's Court, Kings County:
  Compensation of Copyists (amendment of resolution) ... 99
  Salaries of Comparers ... 2789
Taxes and Assessments, Department of:
  Automobile hire ... 3141
  Salaries:
    Additional force ... 3141
    Increases ... 3141
    Temporary Clerks ... 3141
  Tax and Assessment Maps ... 1043
Temporary foot bridge across tracks of the New York and Putnam Railroad at Two Hundred and Thirty-first street, The Bronx ... 1444
Thompson avenue, Borough of Queens, repairing and resurfacing ... 3470
Turnbull Mansion, Bartow-on-the-Sound, The Bronx, erection of fire escapes on ... 4425
Water Supply, Gas and Electricity, Department of:
  Engineering Bureau, Boroughs of Manhattan and The Bronx, Wages of Maintenance and Construction Force, for overtime work ... 1773, 4431
  Inspection Force for prevention of waste and unnecessary use of water, compensation of ... 2167
  Inspection Force on changes in system made necessary by public improvements, compensation of ... 815
  Purchase of hypo-chlorite of lime and sulphate of copper ... 1776

PAGE

- Williamsburg Bridge, maintenance of 4432
- Stonebridge, William, protesting appropriations for new subways 68
- Stone, S. H., offer to rent building on southwest corner of Centre and Walker street. for use of Health Department 2741
- Street Cleaning, Department of:
  - Budget schedules for 1910, revision of, to close accounts 963
  - Care of department horses, communication from American Society for Prevention of Cruelty to Animals, relative to 285, 625
  - Corporate stock authorizations and amendments:
    - Covered dumping board at foot of Clinton street, East River, Manhattan, construction of 3426
    - Covered dumping board at foot of Lincoln avenue, Harlem River, The Bronx, construction of 3426
    - Dumping boards, in Boroughs of Manhattan and Brooklyn, construction of (reduction in amount) 3428
    - Elevator in Stable "A," Seventeenth street and Avenue A, Manhattan, installation of (reduction in amount) 3428
    - Stable for Borough of Brooklyn, acquisition of site and erection of building for 3427
    - Stable on block bounded by Flushing avenue, Graham street, Kent avenue and Little Nassau street, Brooklyn, construction of (amendment) 3427
  - Corporate Stock Budget 3426
  - Dumps at East Eightieth street, Manhattan, and foot of Lincoln avenue, The Bronx, appropriation for construction of 1378
  - Emerson Contracting Company, rent of street cleaning machines from.. 2074, 3138
  - Final disposition of ashes and rubbish in Borough of Brooklyn, modification of contract with Borough Development Company for 1700
  - Final disposition of ashes, etc., delivered on board decks scows at water front dumps on Hudson River and Clinton street dump, East River, completion of abandoned contract for 2078, 2173
  - Final disposition of garbage in the Boroughs of Manhattan and The Bronx, award of contract for 371
  - Flushing system, installation of and investigation of methods for flushing the streets, appointment of committee and report 570, 2074
  - Horses, draft and driving, issue of special revenue bonds for purchase of 4414
  - Horseshoe pads, amendment of specifications for purchase of 748, 1007
  - Plumbers, increase in wages of:
    - Issue of special revenue bonds 2995, 3274
    - Schedule for fund 3275
  - Removal of snow and ice:
    - Award of contracts for the Boroughs of Manhattan, The Bronx and Brooklyn 2734, 2803
    - Award of contracts for Districts 3d, 4th, 5th and 6th, Manhattan.... 140, 665
    - Award of contract in The Bronx (completion of abandoned contract) 387
    - Special revenue bonds for:
      - Borough of Brooklyn 187, 444, 665, 733, 783, 979, 1489
      - Borough of Manhattan 174, 187, 444, 665, 733, 783, 979, 1489
      - Borough of The Bronx 665, 783, 979
  - Rubber hose, hose carriers and couplings, issue of special revenue bonds for purchase of 1488, 1916
  - Salaries, establishment of positions and grades:
    - Automobile Engineman 2458, 3085
    - Chief Bookkeeper 2633, 3084
    - Stenographer 2679, 3115
    - Supervisor of Juvenile Leagues 1597, 3102
  - Schedules of salaries and wages, Budget, modification of:
    - For 1910—
      - Nos. 695 and 696 303
    - For 1911—
      - No. 861 3156
      - No. 864 2777
      - No. 884 3156

PAGE
No. 887 169
No. 889 .... 103, 3156, 3271
No. 891 .... 103, 3271
No. 894 .... 103, 169, 1847, 3156
No. 895 103
No. 897 3271
No. 898 3271
Nos. 900 and 902 170
No. 910 3156
No. 915 .... 103, 1847, 3156, 3271
No. 917 .... 103, 1847, 2779, 3271
No. 920 .... 103, 3271
Nos. 925 and 927 170
No. 935 3156
No. 940 .... 103, 1847
No. 942 .... 103, 1847, 3271
No. 945 103
No. 961 3156
Storehouse under Williamsburg Bridge, Manhattan, appropriation for construction of 3153, 4344
Street cleaning machines, issue of special revenue bonds for hire of, under contract with the Emerson Contracting Company 2074, 3138
Tinsmiths, increase in wages of:
Issue of special revenue bonds 2995, 3274
Schedule for fund 3275
Transfers:
Within appropriation for 1910 ..... 175, 188, 303, 389, 444, 963, 1105, 2143, 2283
Within appropriation for 1911 .... 170, 172, 665, 733, 783, 980, 1490, 1849, 3274, 4278
Within appropriation for 1911 (disapproved) 3156
Subways, communications relative to:
Automatic rail fastener and steel tie in connection with construction.. 140
Contracts for construction, insertion of clause in, for protection of workmen 2765, 4284
Fire protection 1545
Labor laws, observance of, in construction and operation 3142, 4284
Ventilation of 2464, 3020
Sun, The, claim for advertising for Board of Water Supply 3045
Sweeney, George W., communications from, relative to transit facilities... 2080

T

Talley, Alfred J., communication from, relative to increasing salaries of Attendants in Court of Special Sessions 1293, 1653, 2678
Taxes and Assessments—
Assessed valuation of real estate, prospective increases in, for 1911 and subsequent years to 1915, statement relative to 85
Automobile hire, issue of special revenue bonds for 3139
Deputy Tax Commissioners, request filed in 1910, for appointment of additional 1409
Schedules of salaries, Budget, modification of 340, 1380, 1838, 1946, 2737, 3061, 3483, 4351
Tax Assessment Maps:
Appropriation for 712, 1041
Schedule of salaries, approval of 1043, 1945
Salaries, request for establishment of grades of positions filed in 1910.. 1413, 1414
Salaries, establishment of positions and grades:
Assistant Tax Commissioner 2734
Confidential Stenographer 932, 1322, 2734
Deputy Tax Commissioner 1597, 2734
Messenger 1597, 2734
Searcher 1597, 2734
Secretary 1597, 2734
Various grades of positions 2459
Salaries of additional force and increases in salaries of present force:
Issue of special revenue bonds 3139

PAGE

- Schedule for fund 3142
- Temporary Clerks, salaries of:
  - Issue of special revenue bonds 3139
  - Schedule for fund 3142
- Tax Law, amendment of, relative to assessments on property for aqueduct purposes 1769
- Tax levies of 1904 and prior deemed uncollectible at January 1, 1905, release of corporate stock authorization for, deficiencies in 3434
- Taxpayers' Alliance of The Bronx, communication from, relative to transit facilities 2741
- Taylor, Mrs. Cortlandt E., communication from, relative to transit facilities 2046
- Telephones, maintenance of by City, in homes of public officials 978, 1072
- Tenement House Department—
  - Salaries, establishment of positions and grades:
    - Clerk 748, 1080
    - Chief Clerk 526, 933, 1403
    - Chief Inspector 526, 933, 1403
    - First Deputy Commissioner 526, 933, 1403
    - Inspector of Tenements 526, 933, 1403
    - Photographer 526, 933, 1403
    - Process Server 526, 933, 1403
    - Second Deputy Commissioner 526, 933, 1403
    - Secretary to Commissioner 526, 933, 1403
    - Secretary to Department 526, 933, 1403
    - Stenographer and Booktypewriter 748, 1080
    - Superintendent 526, 933, 1403
    - Tabulator 526, 933, 1403
    - Telephone Operator 526, 933, 1403
    - Typewriting Copyist 748, 1080
    - Various grades and positions, request presented in 1910 returned.. 1046
  - Schedules of Salaries Budget, modification of:
    - No. 203 .... 399, 999, 2107
    - No. 204 .... 399, 999, 2107, 2624
    - No. 206 999
    - No. 207 2107
  - Transfers within:
    - Appropriation for 1910 1488
    - Appropriation for 1911 .... 399, 999, 1282, 2110, 4278
- Thayer, Edward C., communication from, relative to transit facilities 1702
- The Bronx, President of the Borough of—
  - Approval of plans, specifications and estimates of cost, contracts chargeable to corporate stock:
    - Electrical work, Bronx Court House 946
    - Transverse road, at East One Hundred and Seventieth street, in connection with Grand Boulevard and Concourse, construction of 1716
    - Webster avenue storm relief sewer, erection of fences around shaft houses Nos. 1 and 2 1551
  - Boring machine, loaned by Department of Docks and Ferries, issue of special revenue bonds for use of 2995, 3292
  - Bronx Court House, appropriation for completion of 1768
  - Budgetary part allowances, request for exception of, from resolutions governing Budget appropriations 462, 2343
  - Bureau of Sewers:
    - Issue of special revenue bonds for overtime work of Laborers, and Sewer Cleaners 1132, 1805
    - Schedule for fund 1805, 2827
  - Corporate stock authorizations and amendments:
    - Belmont avenue sewer, construction of (reduction in amount) 3314
    - Bronx Court House, construction and equipment 3314
    - Drainage and sewerage district plans, preparation of 3314
    - Drainage and sewerage district plans, preparation of for 1910 (reduction in amount) 3315
    - Drinking fountain at Boston road and Prospect avenue, erection of (rescision of authorization) 3315

PAGE

- Grand boulevard and Concourse, planting trees on 1888, 3312
- Highway bridge across Bronx River, connecting Becker avenue, The Bronx, with Wakefield avenue, Yonkers, construction of (reduction in amount) 3316
- Highway Bridge across Bronx River over tracks of the New York & Harlem and New York, New Haven and Hartford Railroad at East Two Hundred and Forty-first street, construction of 3313
- Junction of Franklin and Third avenues, improvement of (rescision of authorization) 3316
- Junction of Third avenue and Boston road, improvement of 3312
- One Hundred and Sixty-fifth street, regulating, grading and paving 3312
- Plots on Prospect avenue, sodding (reduction in amount) 3316
- Public comfort station at One Hundred and Thirty-eighth street, construction of 3313
- Repaving streets and avenues 459, 1047, 3313
- Topographical Bureau, work of 3314
- Transverse road at One Hundred and Sixty-first street, construction of 3312
- Transverse roads, Grand Boulevard and Concourse, at Bronx Park road, One Hundred and Seventieth and One Hundred and Seventy-fourth streets (amended to read Bedford Park road). 1071, 1584, 2069
- Webster avenue storm relief sewer, construction of (reduction in amount 3315

Corporate Stock Budget 3311

Corporate stock estimate for 1911-1915 527

Estimator, matter of establishment of position in Building Bureaus, all boroughs 526, 1077, 1418, 2995

Fence around space under the Third avenue bridge, Bronx side, from Southern boulevard to One Hundred and Thirty-sixth street, request for issue of special revenue bonds for erection of 817, 955

Footbridge across tracks of the New York and Putnam Railroad at Two Hundred and Thirty-first street, issue of special revenue bonds for erection of temporary 1292, 1443

Floating baths:
- Issue of special revenue bonds for maintenance 2078, 2172
- Schedule for fund 2173

Heine monument at entrance of Grand boulevard and Concourse,, at One Hundred and Sixty-first street, issue of special revenue bonds for restoration of 4414

Legalizing payment of salaries at rates less than those shown in Budget schedules 463, 2343

Municipal Building:
- Installation of lighting system in 184, 283
- Preparation of plans, appropriation for 3317

Repaving contracts, exemption of from provision of resolution of June 3, 1910 1423

Rock excavation work:
- Issue of special revenue bonds for payment of wages of Laborers employed on 1132, 1806
- Schedule for fund 1807

Salaries, establishment of positions and grades:
- Assistant Commissioner of Public Works 3072
- Assistant Engineer 1132, 1293, 1451, 1558
- Chainman 1293
- Chainman and Rodman 1293, 1558
- Clerk 932, 1089, 2076, 3303
- Commissioner of Public Works 3072
- Computer 1293, 1558
- Foreman of Automobile Enginemen 1071, 3071
- Foreman of stable and yards 2343, 3071
- General Bookkeeper 67, 1321
- Housesmith 382
- Sewer Cleaner 382

PAGE
Stableman 382
Stenographer and Typewriter 382
Structural Steel Draftsman 1071, 1808
Topographical Draftsman 1132, 1451
Salaries, requests for establishment of grades of positions filed in 1910 1412
Schedules of salaries and wages, Budget modification of:
No. 1709 313, 980, 1157, 2078, 2702
1711 313, 2190
1714 313, 2189, 2363, 3014, 4362
1716 313, 4362
1718 4362
1719 313, 980, 1384
1720 313
1721 3030
1722 and 1723 313
1734 313, 980, 1782, 1889, 1981, 2046, 2187, 4362
1738 980, 1157
1741 and 1748 313
1750 313, 980
1751 and 1759 313
1762 313, 980, 1749, 2765, 4401
1763 313, 980, 1749, 2765
Schedules of salaries and wages, non-budgetary, approval of Corporate Stock Force—drainage and sewer district plans 2995, 4362
Topographical Bureau 2995, 4362
Sewers in Westchester, Third and Brooke avenues, request for appropriation for construction of 3317
Sewers, reconstruction of in vicinity of Third avenue and One Hundred and Forty-ninth street, appropriation for 68
Topographical Bureau:
Schedule of salaries and wages, revision of 1894, 2995, 4362
Transfers within appropriation for 1911 980, 2989
Viaduct at Neried avenue, matter of construction of 2085, 3240
Viaduct to connect Central Bridge with southerly end of the Concourse, request for appropriation for construction of 3317
Water boring machine belonging to Department of Docks and Ferries, employment of crew in connection with 931, 2458, 2737, 2995, 3292
White Plains avenue, between Morris street and City Line, issue of special revenue bonds for repairs to pavement 2037, 2768
Third Avenue Bridge Company—
Extension of time for construction and completion of railway on East Fifty-ninth and Sixtieth streets, Manhattan:
Application 268
Withdrawal of application 523
Extension of time to commence operation of cars:
Application 1877
Third avenue bridge, erection of fence around space under bridge 817, 955
Thirtieth and Thirty-first Wards, Brooklyn, petition of citizens of, relative to transit facilities 2291
Thirty-first Ward Taxpayers' Association of Brooklyn, communication from, relative to transit facilities 1770
Tierney, E. M., communication from relative to transit facilities 1702
Tile Layers' Union, communication from, relative to classifying Inspectors of tile work 1091
Time Sheets, compliance by various departments with resolution accompanying Budget for 1911, relative to 386
Tinner, Tinsmith, Tinsmith and Roofer—
Establishment of grades of positions in all city departments 590
Increased compensation, departments to provide for payment of 592
Topographical work in all boroughs—
Appropriation for running precise levels and establishment of bench marks 428, 723
Torrens system of land registration, registering titles to property acquired by city, under 371

PAGE

Treasury Department, U. S. A.—
  Maintenance, etc., of pneumatic tubes between Appraisers' Warehouse and new Custom House, Manhattan:
    Notice of completion 31
  Relocation of scale in driveway of the Appraisers Warehouse across the easterly sidewalk of Washington street, Manhattan:
    Application 1222
    Grant of consent 1873
    Mayor's Approval 2019
Tremont Taxpayers' Association, communication from, relative to the Jerome Avenue Extension of the rapid transit railway.... 569
Truitt, U. L., communication from, relative to increasing the salaries of Supervising Nurses in the Health Department.... 1133, 1294
Tuberculosis patients, increased hospital facilities for care of, communications relative to 2633, 2683
Tuttle & Bailey Manufacturing Company:
  Installation, etc., of pipe line under and across North Tenth street, between Berry street and Wythe avenue, Brooklyn:
    Application 4267
    Company to furnish proof of authority for use of structure, etc.. 4268
    Grant of consent 4268
Twenty-eighth and Twenty-ninth Streets Crosstown Railroad Company—
  Franchise to construct, etc., street surface railway from Twenty-eighth street and Seventh avenue, along Seventh avenue to Thirty-second street, etc., Manhattan:
    Designation of newspapers.... 2657
    Petition 2023
    Preliminary public hearing 2243
    Withdrawal of petition pending determination of definite plan... 2950
Twenty-eighth Ward Board of Trade, Brooklyn, communication from, relative to transportation facilities.... 388
Twenty-eighth Ward Taxpayers' Protective Association of Brooklyn, relative to transportation facilities 714
Twenty-fourth Ward Board of Trade, Brooklyn, communication from, relative to transportation facilities.... 1133
Twenty-second Assembly District Republican Club of Kings County, communication from, relative to transit facilities.... 1889
Twenty-third Street Improvement Association of New York, communication from, relative to transportation facilities.... 140
Twenty-third Ward Property Owners' Association of The Bronx, communication from, relative to transit facilities.... 2291

U

Unionport Taxpayers' Association, communication from, relative to transit facilities 2046
Union Railway Company of New York City—
  Agreement with New York City Interborough Railway Company for use of tracks on Southern boulevard.... 2209, 2240
  Extension along One Hundred and Sixty-seventh and other streets, from Jerome to Westchester avenues, The Bronx:
    Report relative to construction and operation of railway.... 30
  Extension along St. Anns avenue, from Third avenue to the Southern boulevard, The Bronx:
    Consent of abutting property owners.... 913, 1064
    Execution of contract 687
  Extensions to existing system, viz.—
    (*a*) On One Hundred and Fifty-fifth street, from Eighth avenue to Broadway, Manhattan:
      Designation of newspapers.... 1055
      Final public hearing 883, 1455, 1662, 1853
      Grant of franchise.... 1853
      Mayor's approval 2019, 2931
      Proposed forms of contract.... 869, 875
      Supplementary agreement 2023, 2672

PAGE

(*b*) On Washington Bridge and One Hundred and Eighty-first street, from Boscobel avenue, The Bronx, to Broadway, Manhattan:
  Designation of newspapers 1055
  Final public hearing............ 893
  Proposed Form of contract 869, 884
  Resolution fixing public hearing rescinded............ 1483
(*c*) On Broadway, from Two Hundred and Thirtieth to Two Hundred and Twenty-fifth streets, Boroughs of Manhattan and The Bronx:
  Consents of abutting property owners............ 4272
  Designation of newspapers 1055
  Final public hearing 901
  Grant of franchise 1455
  Mayor's approval 1677, 2931
  Proposed form of contract............ 869, 893
  Supplementary agreement 2023, 2672
Operation of railway upon Madison avenue bridge and viaducts leading thereto:
  Designation of newspapers 483
  Final public hearing 248, 847
  Grant of franchise 847
  Mayor's approval 1055, 2931
  Proposed form of contract 236, 847
  Supplementary agreement 2023, 2672
United Brotherhood of Carpenters and Joiners, communication from, relative to transit facilities 527
United Civic Associations of the Borough of Queens, communication from, relative to acquisition by city of private water companies............ 2085
United Real Estate Owners' Association of New York City, communication from, relative to transportation facilities 2996
United States Government, claim of The City of New York against, for expenditures made during Civil War............ 2994
University Settlement Society, communication from, relative to an appropriation for keeping evening recreation centres open during summer months 2343
Urban Water Company, contract with for furnishing a supply of water for the First Ward, Borough of Queens............1747, 2847, 3127, 3303, 3488

V

Vacation to per diem employees, Assembly Bill No. 148, relative to........ 1906
Vacation to per diem employees, communication from Central Labor Union requesting that an appropriation be made in Budget for 1912, to permit granting a two weeks' vacation............ 4283
Van Nest section of The Bronx, request for an appropriation for erection of an addition to Public School 43 in............ 365
Vantine & Co., A. A., communication from, relative to transit facilities...... 2046
Varick street, Manhattan, appropriation for extension and widening of.... 3309
Vegetables, standard specifications for purchase of............ 1082
Veil, Jacob Henry, communication from, relative to transit facilities........ 2046
Veterans' graves in Brooklyn, appropriation for headstones for.......... 1118

W

Wages of city employees, matter of delay in payment of............ 1905
Walton, Elizabeth, communication from, relative to increased hospital facilities for care of tuberculosis patients............ 2633
Warner, Mary L., communication from, relative to transit facilities........ 2364
Washington Heights Taxpayers' Association, communication from, relative to inadequate school accommodations............ 2847
Water companies, privately owned—
  Acquisition of 2085
  Determination of value before acquisition by City............ 1974, 2314, 2765, 3129, 3156, 3472, 4287

PAGE

- Water meters in City-owned buildings, etc., installations and payment for water used 2847, 4303
- Water Supply, Board of—
  - Advertising, claim of "The Sun" for 3045
  - Catskill aqueduct, legislative enactment relative to regulating assessments on city property, on line of 1769
  - City aqueduct—
    - Approval of purchase of:
      - Parcel 47 (easement in) 1883, 2458
      - Parcel 49 2458, 2813
      - Parcel 127 1591, 2431
      - Parcel 159 (easement in) 2994
  - Contingent expenses, authority to draw upon Comptroller for a sum to cover 2037, 2443
  - Kensico Reservoir—
    - Approval of purchase of:
      - Parcel 174 80
      - Parcel 317 (rescission of resolution) 298
      - Parcel 783 82
    - Removal of pole lines, etc., approval of agreements with:
      - French Telegraph Cable Company 2364, 2694
      - New York Telephone Company, Postal Telegraph Cable Company and Western Union Telegraph Company 1845, 1920
  - Miners in shafts of Hudson River crossing, approval of increase in compensation of 67, 971, 994, 1086, 1134
  - Southern Reservoir—
    - Approval of purchase of:
      - Parcel 1151, perpetual easement in 1488, 1803
      - Parcel 1153 1488, 1803
  - Salaries of employees, approval of proposed increases in 67, 1016
  - Schedules of salaries, approval and administration of 610, 1134, 1701, 1747, 1768, 1888
- Water Supply, Gas and Electricity, Department of—
  - Approval of plans, specifications and estimates of cost, contracts, chargeable to corporate stock:
    - Fencing in Croton water shed 577, 722, 771, 953, 994, 1085, 1134, 1296, 1419, 1519
    - Repairing pumping stations in Brooklyn and Queens 2704
  - Brooklyn Water Supply System:
    - Appropriations from revenues for maintenance and distribution—
    - Bureau of Water Registrar:
      - Expenses connected with reorganization 385, 525, 1013
      - Contingencies 1767, 2298
      - Furniture and fittings, purchase of 3468, 4366
      - Estimate of amount required for 1911 1132, 1437, 3193
      - Investigation of water waste 1146
      - Maintenance and distribution, appropriation for 3193
      - Salaries, wages, supplies, etc 1437, 3193
        - Schedules for salaries and wages 1440, 3223, 4394
      - Salaries of temporary employees 347, 1440, 3193
        - Schedules for 347, 1440, 3223
      - Waste detection work, appropriation for, made in 1910, amendment of 748, 1146
      - Improvement of distribution system in Broadway, Eastern and Evergreen districts, communication relative to 2085
      - Repairs and improvements at various pumping stations, approval of plans and specifications for 2704
      - Repairs to wagons 385, 764
      - Transfers within amounts appropriated from water revenues for 1911 2734
  - Bureau of Water Register, Brooklyn, approval of increases in compensation of employees in 1013
  - Carter & Company, Robert, claim for laying and hauling water mains in Brooklyn during the years 1908 and 1909 3015

PAGE

- Contracts with private water companies 2314
- Cornell Dam proceeding (Eighth Supplementary), awards, expenses and counsel fees 1817
- Corporate stock authorizations and amendments:
  - Additional water fund 3487
  - Additional water supply in Brooklyn, two driven well stations in Parkville and Flatlands 127, 752, 1011, 1552
  - Brooklyn Water Shed:
    - Additions to pumping station buildings and permanent betterments 3441
    - Installation of additional equipment in pumping stations...... 3441
  - Chlorination plant at Dunwoodie, Westchester County, construction of 3436
  - Chlorination plants (4), on streams in Croton water shed, construction of 3437
  - Clove pumping station, Richmond, installing additional boilers at.. 3444
  - Cornell Dam proceeding (Eighth Supplementary), awards, expenses and counsel fees 1817
  - Croton Falls Dam and Reservoir proceedings:
    - Bill of Commissioners of Estimate and Appraisal.............. 1130, 2132
    - Costs, counsel fees and awards............................1377, 1816, 1881
    - Engineering and contingent expenses............................ 3487
  - Distribution mains and appurtenances—
    - Borough of Brooklyn:
      - Cross-connecting old mains in district bounded by the City line, Flushing avenue, Sumner avenue, Atlantic avenue, Broadway and Granite street.................... 3437
      - Furnishing and laying:
        - Sixteen-inch main in Fulton street, from Howard avenue to Classon avenue 3438
        - Sixteen-inch main in Hopkinson avenue, from Broadway to Fulton street 3438
        - Sixteen-inch main in Howard avenue, from Broadway to Fulton street 3438
        - Small mains and appurtenances..................... 3437
        - Twenty-inch main in Broadway, from Jamaica avenue to Rockaway avenue 3438
        - Twenty-inch main in Nostrand avenue, from Woodruff avenue to Flatbush avenue 3439
    - Boroughs of Manhattan and The Bronx:
      - Furnishing and laying small mains..................... 3436
    - Borough of Queens:
      - Furnishing and laying:
        - Additional small mains 3442
        - Thirty-inch main in Fresh Meadow road, North Hempstead turnpike, Jamaica avenue and Union avenue 3442
        - Two twenty-four-inch mains from Bayside pumping station to the Flushing standpipe 3442
    - Borough of Richmond:
      - Furnishing and laying additional small mains............ 3443
  - East New York repair yard, Brooklyn, construction of building for use as a stable for headquarters for machine shop and for storage purposes 3440
  - Engineering and Labor Construction Force, all boroughs, contingent expenses 3445
  - Engineering Construction Force, all boroughs, salaries and wages. 3444
  - Gowanus pipe yard, Brooklyn, construction of building for use as a stable for headquarters and for storage purposes.............. 3440
  - Hydrants and appurtenances (double-nozzle), furnishing and setting five hundred additional in Brooklyn, for fire protection purposes 3439
  - Jerome Park Reservoir, completion of easterly basin and installation of Filtration Plant 458, 1883

PAGE

- Labor Construction Force—
  - Borough of Brooklyn:
    - Salaries and wages, payment of 3441
    - Supplies and materials, purchase of 3439
  - Boroughs of Manhattan and The Bronx:
    - Salaries and wages, payment of 3437
    - Supplies and materials 3436
  - Borough of Queens:
    - Salaries and wages, payment of 3443
    - Supplies and materials 3442
  - Borough of Richmond:
    - Salaries and wages, payment of 3444
    - Supplies and materials, purchase of 3443
  - Mount Kisco, New York, acquisition of land in for protection of water supply 2847, 4409
  - New Grant City pumping station, Richmond, furnishing and installing necessary engines, boilers and appurtenances and electrical equipment in 3444
  - New Utrecht pumping station building, Brooklyn, additions to and use of as a storage repair yard 3440
  - North Portland avenue repair yard, Brooklyn, construction of building to be used as a stable and garage for headquarters for repair shops and for storage purposes 3440
  - Ridgewood pumping station, Brooklyn, fencing and improving grounds 3441
  - West New Brighton pumping station, Richmond:
    - Construction of building for headquarters for repair shops and for storage purposes 3443
    - Extension of present building and erection of additional pump. 3444
  - Purchase of water mains in Brooklyn, owned by various real estate companies and individuals 2813
- Corporate Stock Budget 3436
- Corporate Stock Estimate for 1911-1915 387
- De Varona, I. M., discontinuance of suit brought by Reis & O'Donovan, against 2317
- Distribution system, improvement and extension—request for appropriation for 1378
- Electrical equipment, installation in public buildings, approval of plans and specifications by Department of Water Supply, Gas and Electricity 526
- Engineering Bureau, Manhattan and The Bronx—Maintenance and Construction Force:
  - Issue of special revenue bonds for overtime work...1377, 1717, 1771, 3235, 4430
  - Schedule for fund 1774, 4431
- Engineers in charge of Pumping Stations in Brooklyn, matter of increasing salaries of 1377, 1838
- Excello Paint and Oil Company, claim for oil and other supplies furnished the Department of Water Supply, Gas and Electricity...... 4416
- Fire hydrants in certain sections of Borough of Queens, necessity for.. 1423
- Flaming Arc Lamps for use in City buildings, approval of specifications for ...2633, 3129, 3156, 3472, 4284, 4286
- Flatbush Water Works Company:
  - Agreement with, for rental of fire hydrants in Brooklyn 1314
  - Purchase of water mains operated by 2809
- Germania Real Estate and Improvement Company:
  - Claim for damages against The City of New York for use of water mains 2847
  - Purchase by City of water pipes and appurtenances 2810
- High pressure pumping station on Oliver and South streets, Manhattan, claim of Reis & O'Donovan for work on 2317
- Hydrant rental in Borough of Queens, claim of Queens County Water Company for 2164
- Hypo-chlorite of lime and sulphate of copper, issue of special revenue bonds for purchase of 1377, 1715, 1775
- Inspection Force employees, issue of special revenue bonds for........ 525, 814

PAGE

Jerome Park Reservoir:
  Discharge of committee on filtration of water supply 1601, 1710
  Easterly Basin, appropriation for completion of 458, 1601, 1710, 1768, 1883
  Land in easterly basin, City's right to sell 713
Jones, Edward H. Floyd, agreement with, relative to acquisition of property at Massepequa and Oyster Bay for purposes of water supply 127, 1023, 1491
Laying and hauling water mains in Brooklyn, claim of Robert Carter & Co. for 3015
Laying water mains in Borough of Brooklyn, claim of John J. Hagerty for 1515
Lucas, John, & Company, claim for furnishing turpentine 1171
Mount Kisco, New York, acquisition of land for protection of water supply system 2847, 4408
Municipal Building, Borough of The Bronx, installation of lighting system in 184, 283
Municipal electric light and power plant in 30th Ward, Brooklyn, communication from South Side Board of Trade of Brooklyn, relative to operation of 2741, 3186, 4282.
Private water companies operating in the Borough of Queens, communications requesting City to purchase 2085, 2765
Pumping stations in connection with Brooklyn system of water supply, approval of plans, etc., for repairs to 2704
Salaries, establishment of positions and grades:
  Attendant 749, 1078
  Consulting Engineer 386, 661
  Estimator 526, 1077, 1418, 2995
  Expert Accountant 386, 662
  Foreman 749, 1078
  Inspector of Meters and Water Consumption 932, 1812
  Pilot 749, 1078
  Stenographer and Typewriter 163, 1414
  Storekeeper 1768, 2305
  Supervisory Inspector of Shop and Foundry Work 164
  Typewriter Copyist 2191, 3089
Salaries, establishment of various grades of positions to legalize compensation of present incumbents 386, 657
Schedules of salaries and wages, Budget, modification of
  For 1910.
    No. 463 166
  For 1911.
    No. 451 2134
    457 1029, 1429, 1609
    458 1029, 1829
    460 1165
    461 1829, 4395
    472 1029
    473 (Budgetary part allowance) 3163
    479 1929, 3262
    480 and 481 1382, 1952
    483 and 484 1029
    494 2134
    503 3163
    504 1717
    506 1029, 4381
    507 1029
    515 1108, 2105, 2683, 4290
    517 and 518 1828
    523 1300
    531 1929, 2190
    556 and 557 1029, 1165
    561 1029, 1108
    563 1029
    569 and 575 1029, 1787
    576 1029, 3264

PAGE

  584 .... 1363, 1610, 3253, 3474
  592, 599, 600, 607 and 608 1029
  621 3473
  627 .... 1183, 2630, 3475
  630 .... 997, 1183, 2684, 3475
  631 3475
  632 1183
  646 .... 1183, 2630, 3475
  654 3475
  668 .... 424, 2630, 3475
  686 .... 997, 3475
  692 .... 549, 2630, 3475

Schedules of salaries and wages—non-budgetary—approval of:
  All employees paid from non-budgetary accounts 1572, 2061
  Borough Engineer, Corporate Stock and Water Revenue Force 4292
  Engineering Bureau:
    Corporate Stock Force 2296, 3165
    Water Revenue and Corporate Stock Force 2616
    Maintenance and distribution of water supply in Brooklyn—Corporate Stock and Water Revenue Force 3254, 4298
    Maintenance and distriution, Manhattan and The Bronx:
      Maintenance and construction force 4381
    Operation, pumping stations:
      Corporate Stock and Water Revenue Force 3255
      Water Revenue Force 3265
  Water Registrar's Bureau:
    Water Revenue and Corporate Stock Force 2616, 4395
    Water Revenue Force 4394

South Shore Water Works Company of Staten Island, offer of sale of franchises, pumping plant, etc. 1702, 3129, 3156, 3470

Stenographer and Typewriter, request for establishment of grade filed in 1910 1414

Sterilization of water supply, discharge of committee on, from further consideration of filtration plant at Jerome Park Reservoir 1601, 1710

Titus, Silas W., method of charging payments under contract with 953

Transfers within—
  Appropriation for 1910 .... 785, 920, 1129, 1487, 1941, 2058
  Appropriation for 1911 .... 1029, 1108, 1183, 1762, 1914, 2136, 2706, 3146, 3149, 3164, 3481

Urban Water Company, contract with for a supply of water for the 1st Ward, Borough of Queens 1747, 2847, 3127, 3303, 3487

Water companies, privately owned, matter of determining value before acquisition by the City 1974, 2314, 2765, 3129, 3472, 4287

Water mains and appurtenances owned by various real estate companies in Brooklyn, purchase of 2809

Water meters in City owned buildings, etc., installation of and payment for water used 2847, 4303

Water pipes and appurtenances of various companies and individuals in Brooklyn, purchase of 2813, 4287

Water waste, issue of special revenue for salaries of inspection force for making house to house inspections and for clerical help 2167

Water meters in City owned buildings, etc., installation and payment for water used 2847, 4303

Webber, Richard:
  Consent to continue to maintain, etc., pipe under and across East 120th street, Manhattan:
    Execution of agreement 902
    Mayor's approval 32

Weights and Measures, Bureau of (see Mayoralty)—

Weltsch, Dave, communication from, relative to transit facilities 2683

Wesel Manufacturing Company, F.:
  Construction, etc., of pipe under and across Henry street, Brooklyn:
    Notice of completion of work 268

Westchester, Public School No. 12, request for appropriation for construction of annex 387, 957

PAGE

West End Citizens' League of Woodhaven, Borough of Queens, communication from, relative to transit facilities ... 1945, 4284
Western Electric Company:
  Consent to continue to maintain, etc., tunnel under and across Bank street, Manhattan:
    Execution of contract ... 682
    Mayor's approval ... 32
West End Improvement League of Coney Island, communication from, relative to need of sewerage system and additional fire protection ... 932, 1082
Westminster Heights Company, purchase by City of water mains and appurtenances of ... 2810
West Side Children's Playground and Recreation Conference, communication from, relative to undervaluation of corporation holdings ... 527
West Side Taxpayers' Ass'n, communication from, relative to transit facilities ... 2765
Whitlock, E. J., communication from, relative to modification of budget salary schedules, Department of Education, 1911 ... 386
Whitestone Improvement Ass'n of the Borough of Queens, communications from relative to—
  Topographical Map of Borough of Queens, completion of ... 2191
  Transit facilities ... 2046
Wiley Company, C. A.:
  Construction, etc., of pipe on Hancock street, First Ward, Borough of Queens:
    Application denied ... 513
Wilson, John C., communication from protesting modification of lease of Interborough Rapid Transit Company with City ... 1945
Wolfe, John, Estate of:
  Maintenance of pipe under and across William street, between Liberty and Maiden lane, Manhattan:
    Consent, rescission of ... 1879
    Mayor's approval ... 2019
Woman's Municipal League, communication from, relative to additional hospital facilities for tuberculosis patients ... 2683
Women's Jail, Place of Detention and Magistrate's Court, appropriation for acquisition of site and erection of building for ... 2343, 3244, 3423, 4340
Women's Prison Association and Isaac T. Hopper Home, communication from, advocating increase in compensation of employees in Workhouse, Blackwell's Island, engaged on Finger Print System ... 1016, 1157
Wood block pavement, communication from Central Federated Union of Greater New York and Vicinity, protesting against use of ... 2741
Wood, Harmon & Company, purchase by City of water mains and appurtenances of ... 2810
Wood, Henry S., communications from, relative to subway construction, etc. 69, 140, 388, 714, 753, 1889, 2046, 2080, 2291, 2464, 2683, 2742, 2765, 2996, 3153, 3469
Woodlawn Heights Taxpayers' Association, communication from, relative to an appropriation for construction of Nereid avenue viaduct ... 2085, 3240
Woodward, V., communication from, relative to increased hospital facilities for tuberculosis patients ... 2847
Workingman's Exchange of America, communication from, relative to transit facilities ... 1945
Wyckoff Heights Taxpayers' Association:
  Communication relative to transportation facilities ... 140, 2683
  Communication protesting reduction in appropriation in Budget for 1911, Department of Education ... 625

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Thursday, July 6, 1911.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of an adjournment.

Present—William J. Gaynor, Mayor; William A. Prendergast, Comptroller; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Cyrus C. Miller, President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Mayor, Hon. William J. Gaynor, presided.

After disposing of the Public Improvements Calendar, the following Financial and Franchise Matters were considered:

The minutes (Financial and Franchise Matters) of the meeting held June 29, 1911, and of special meeting (Franchise Matters) held June 29, 1911, as printed in the City Record July 6, 1911, were approved.

FRANCHISE MATTERS.

Southern Boulevard Railroad Company.

The public hearing was opened on the form of contract for the grant of a franchise to the Southern Boulevard Railroad Company to construct, maintain and operate a railway from the existing tracks of the company at the intersection of Southern boulevard and Boston road upon and along Southern boulevard to, and connecting with, the existing tracks of the Union Railway Company of New York City, in Pelham avenue, Borough of The Bronx.

The hearing was fixed for this day by resolution adopted May 25, 1911.

Affidavits of publication were received from the "Sun," the "Evening Mail" and the City Record.

No one appeared in opposition to or in favor of the proposed grant, and the Chair declared the hearing closed.

The following was offered:

Resolved, That the Board of Estimate and Apportionment hereby grants to the Southern Boulevard Railroad Company the franchise or right fully set out and described in the following form of proposed contract for the grant thereof, embodying all the terms and conditions, including the provisions as to rates, fares and charges, upon and subject to the terms and conditions in said proposed form of contract contained and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract, in the name and on behalf of The City of New York, as follows, to wit:

This contract made this day of , 1911, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Southern Boulevard Railroad Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate a double track street surface railway as an extension to its existing railway, with the necessary wires and equipment, for the purpose of conveying passengers only, in the Borough of The Bronx, in The City of New York, upon the following route, to wit:

Beginning at and connecting with the existing tracks of the Company in Southern boulevard at its intersection with Boston road; thence in a general northerly direction in and upon said Southern boulevard to and connecting with the existing tracks of the Union Railway Company of New York City in Pelham avenue, and to cross such other streets and avenues, named and unnamed, as may be encountered in said route. Provided, however, that nothing in this contract shall be construed as permitting more than a double track street surface railway in any portion of Southern boulevard.

The said route, with turnouts, switches and crossovers hereby authorized, is shown upon a map entitled:

"Map showing proposed extension of the Southern Boulevard Railroad Co. in the Borough of The Bronx, City of New York, to accompany petition dated October 27, 1910, to the Board of Estimate and Apportionment,"

—and signed by Edward A. Maher, President, and T. F. Mullaney, Chief Engineer, a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description and the other provisions of this contract may be permitted by resolution of the Board.

Sec. 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway, shall be obtained by the Company within three (3) months from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the Company shall within said three (3) months or within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company from the date upon which this contract is signed by the Mayor until March 1, 1924, with the privilege of renewal of said contract for the further period of twenty-five (25) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding twenty-five (25) years shall be reasonable, and either the City (by the Board) or the Company shall be bound upon request of the other to enter into a written agreement with each other fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of the original term of this contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City any amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—The Company shall pay to the City for the privilege hereby granted, the following sums of money:

(a) The sum of one thousand dollars ($1,000) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years an annual sum which shall in no case be less than six hundred dollars ($600), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of six hundred dollars ($600).

During the second term of five (5) years an annual sum which shall in no case be less than eleven hundred dollars ($1,100), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of eleven hundred dollars ($1,100).

During the remaining term, expiring March 1, 1924, an annual sum which shall in no case be less than twelve hundred dollars ($1,200), and which shall be equal to five (5) per cent. of its gross annual receipts if such percentage shall exceed the sum of twelve hundred dollars ($1,200).

The gross annual receipts mentioned above shall be that portion of the gross receipts of the Company as shall bear the same proportion to its whole gross receipts as the length of the extension hereby authorized shall bear to the entire length of the railway of the Company in operation within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the treasury of the City on November 1 of each year, and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City pursuant to the Railroad Law as amended.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Fourth—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, over the route hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment or any structures used in connection therewith, in streets and avenues hereinbefore described shall be permitted by the Company to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures and additions and betterments thereto, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair, and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same, together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if, in the opinion of the Company, the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board and the Board may fix a percentage upon the cost to be paid to the Company, at a sum in excess of the legal rate of interest, if, in its opinion, such action is justified.

The Company shall not at any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of the railway which shall be constructed by the Company pursuant to this contract.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in anywise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Seventh—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract, and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Eighth—The Company shall commence construction of the railway herein authorized within three (3) months from the date upon which the consents of the property owners are filed with the Board, or from the date of the order of the Appellate Division of the Supreme Court made pursuant to section 174 of the Railroad Law confirming the determination of the Commissioners appointed thereunder that such railway ought to be constructed, and shall complete the construction and place the same in full operation within six (6) months from the date of filing such consents or the date of such order, otherwise this right shall cease and determine, and all sums paid or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City; provided that the period for commencement and the period for completion and placing the railway in full operation may be extended by the Board, but the total extension of time for either of such periods shall not exceed in the aggregate six (6) months; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within the control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided, further, that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board, the Company shall, in writing, consent that the Board either in its own name as a party, or in the name of the City as a party, may intervene in any such proceedings.

Ninth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Tenth—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have juridiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permits so issued such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures in the streets and avenues, over which such officials have jurisdiction, and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Eleventh—Said railway may be operated by overhead electric power substantially similar to the overhead electric system now in use by street surface railways in the Borough of The Bronx, or by any other motive power, except locomotive steam power or horse power, which may be approved by the Board and consented to by the abutting property owners, in accordance with the provisions of law, and by the Public Service Commission for the First District of the State of New York.

Twelfth—Upon six (6) months' notice by the Board to the Company, all wires for the transmission of power, except trolley wires, for the operation of the railway, upon all or any portion of the route hereby authorized, shall be placed in conduits beneath or alongside of the railway. The Company shall provide in such conduits two (2) ducts not less than three (3) inches in diameter for the exclusive use of the City. Such ducts shall be used only by the Company for the operation of its railway and by the City, as above.

Thirteenth—The rate of fare for any passenger upon said railway shall not exceed five (5) cents, and the Company shall not charge any passenger more than five (5) cents for one continuous ride from any point on its road or on any road, line or branch operated by it or under its control to any other point thereof, or any connecting branch thereof within the limits of the City.

The Company shall carry free upon the railway hereby authorized during the term of this contract all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Fourteenth—No cars shall be operated upon the railway hereby authorized other than passenger cars and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway.

Fifteenth—The Company shall attach to each car run over the said railway proper fenders and wheel guards, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Sixteenth—All cars which are operated on said railway shall be heated during the cold weather in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Seventeenth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Eighteenth—Cars on the said railway shall run at intervals of not more than thirty (30) minutes, both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board.

Nineteenth—The Company, so long as it shall continue to use any of the tracks upon the streets and avenues in which said railway shall be constructed, shall cause to be watered at least three (3) times every twenty-four (24) hours when the temperature is above thirty-five (35) degrees Fahrenheit, the entire width of the streets and avenues, except when the width of such streets and avenues shall exceed sixty (60) feet between curblines, in which case the Company shall cause to be watered only sixty (60) feet in width of such roadway, and the Company shall provide for such purpose at least one tank car, the capacity of which shall be sufficient to water such streets and avenues in a satisfactory manner.

Twentieth—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails, on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Twenty-first—As long as said railway, or any portion thereof, remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. In case of the neglect of the Company to make pavement or repairs after the expiration of thirty (30) days' notice to do so from the President of the Borough of The Bronx, said President may make the same at the expense of the Company. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City official, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

Twenty-second—Any alteration to the sewerage or drainage systems, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company and in such manner as the proper City officials may prescribe.

Twenty-third—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance to public work of the City, and should the said railway in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Twenty-fourth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets and avenues, the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Twenty-fifth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amounts paid by the Company for damages to persons or property on account of construction and operation.

18. Total expenses for operation, including salaries.

—and such other information in regard to the business of the Company as may be required by the Board.

Twenty-sixth—The Company shall at all times keep accurate books of account of the gross receipts from all sources within the limits of the City, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross receipts, the total miles in operation within the limits of the City and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Twenty-seventh—In case of any violation or breach or failure to comply with any of the provisions herein contained, or with any orders of the Board acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board, by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-eighth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company, specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Twenty-ninth—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Thirtieth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of three thousand dollars ($3,000), either in money or securities to be approved by him, which fund shall be security for the performance by the Company of all of the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, and the quality of construction of the railway and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions or compliance with such orders or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice to the Company; or in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder, relating to the headway, heating and lighting of cars, fenders, wheel-guards and watering of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation, and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheel-guards, in case of a violation of the provisions relating to those matters, all of which sums may be deducted from the said fund.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its President, or other officer, to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing appears in the judgment of the Board to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice, pay to the City a sum sufficient to restore said security fund to the original amount of three thousand dollars ($3,000), and in default thereof this contract shall be cancelled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Thirty-first—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-second—The words "streets or avenues" and "streets and avenues," wherever used in this contract, shall be deemed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title or over which the public has an easement," encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railway.

Thirty-third—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned, shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers, shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the laws of the State of New York.

Sec. 4. This grant is also upon the further and express condition that the provisions of article 5, and the other provisions of the Railroad Law pertinent hereto shall be strictly complied with by the Company.

Sec. 5. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms and conditions and requirements in this contract fixed and contained.

In witness whereof the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,

[CORPORATE SEAL.] By.............................., Mayor.

Attest: ...., City Clerk.

THE SOUTHERN BOULEVARD RAILROAD COMPANY,

[SEAL.] By.............................., President.

Attest: ...., Secretary.

(Here add acknowledgments.)

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Nassau Electric Railroad Company.

The public hearing was opened on the form of agreement proposed to be entered into with the Nassau Electric Railroad Company and others, defining the intent and meaning of the agreement accompanying the contract authorized to be entered into with this Company and others for the use of a certain piece of track on Flatbush avenue, between Atlantic and 4th avenues, Borough of Brooklyn.

The hearing was fixed for this day by resolution adopted June 8, 1911.

Affidavits of publication were received from the New York "Herald," the "Sun" and the CITY RECORD.

No one appeared in opposition to or in favor of the proposed agreement and the Chair declared the hearing closed.

The following was offered:

Whereas, This Board did by resolution adopted March 2, 1911, and approved by the Mayor March 7, 1911, authorize the Mayor to execute and deliver a contract for the grant of a franchise to The Nassau Electric Railroad Company for the construction, maintenance and operation of a street surface railway extension upon and along Flatbush, 4th and Atlantic avenues, Borough of Brooklyn; and

Whereas, Said contract contained the following provision, being section 3 thereof

"This contract shall not become operative until The Nassau Company shall procure to be executed and approved in proper form for record, and duly delivered to the Board of Estimate and Apportionment an agreement with The Brooklyn City Railroad Company and The Brooklyn Heights Railroad Company, its lessee, wherein they shall agree to permit the use of such portions of their track in Atlantic and Flatbush avenues as may be necessary for the convenient operation of the tracks herein authorized by The Nassau Electric Railroad Company, its successors or assigns, The City of New York and any other company to which the City may hereafter grant or lease rights."

Whereas, The Nassau Electric Railroad Company has advised the Board the proposed agreement accompanying the aforementioned contract is not acceptable to The Brooklyn City Railroad Company as in its opinion said agreement does not correctly and clearly set forth the intent and meaning of the parties thereto, and has submitted a supplementary agreement which cures this defect, which all companies interested are willing to execute in addition to the agreement accompanying the contract, and such supplementary agreement has been approved by the Corporation Counsel

Resolved, That the Board of Estimate and Apportionment hereby adopts and accepts the form of agreement to be executed by.the several companies parties thereto and The City of New York in addition to and as a supplement to the contract and agreement authorized by resolution adopted by the Board March 2, 1911, and approved by the Mayor March 7, 1911, and the Mayor of The City of New York be and he hereby is authorized to execute and deliver such supplementary agreement simultaneously with the execution of the contract granting a franchise to The Nassau Electric Railroad Company, to construct, maintain, and operate a street surface railway upon and along Flatbush, Fourth and Atlantic avenues, Borough of Brooklyn, as follows, to wit:

Agreement made this .... day of .... 1911, between The Brooklyn City Railroad Company (herinafter called the Brooklyn Company), party of the first part, The Brooklyn Heights Railroad Company (hereinafter called the Brooklyn Heights Company), party of the second part, The Nassau Electric Railroad Company (hereinafter called the Nassau Company), party of the third part, and The City of New York (hereinafter called the City), party of the fourth part.

Whereas, The execution and delivery of an instrument of agreement between the parties hereto, the same bearing even date herewith, has been duly authorized by the parties hereto upon the understanding that the true intent and meaning of the words thereof hereinafter quoted is as hereinafter set forth and provided; and

Whereas, Doubts on the part of the Brooklyn Company have arisen as to whether such true intent and meaning of such portion of such instrument be correctly and clearly represented by the language thereof, and the parties hereto have agreed that at the time of the delivery thereof any existing ambiguity therein shall be made clear and such doubts shall be set at rest by this instrument, the execution of which shall have been duly authorized for all the parties hereto in like manner as was the said agreement bearing even date herewith; and

Whereas, Such portion of said agreement so bearing even date herewith is in the following words, to wit:

"Now, therefore, in consideration of the premises and of the sum of one dollar ($1) by each of the parties of the first, second and third parts to the other paid, the receipt whereof is hereby acknowledged, the parties of the first, second and third parts do hereby covenant and agree with each other and with the party of the fourth part that the Nassau Company may connect its tracks with those of the Brooklyn Company in Flatbush avenue, the Nassau Company enjoying with the Brooklyn Company and the Brooklyn Heights Company, a right in common to the use of the tracks and appurtenances of the Brooklyn Company in said street and the Brooklyn Company and the Brooklyn Heights Company further covenant and agree to allow such joint use of their tracks and appurtenances by the Nassau Company, its successors and assigns, or by the City or by any other company to which the City may hereafter grant or lease any rights on said street, to wit: Flatbush avenue, between Atlantic avenue and the point of intersection of said extension with the easterly bound track of the Brooklyn Company in Flatbush avenue."

Now, therefore, in consideration of the premises and of the sum of one dollar ($1) by each of the parties hereto to the other paid, the receipt whereof is hereby acknowledged, the parties do hereby mutually covenant and agree that the true meaning of the said words hereinbefore quoted from the said agreement bearing even date herewith was intended to be and is the same as if the said words, instead of reading as they do in the said agreement bearing even date herewith, read as follows, to wit:

Now, therefore, in consideration of the premises and of the sum of one dollar ($1) by each of the parties of the first, second and third parts to the other paid, the receipt whereof is hereby acknowledged, the parties of the first, second and third parts do hereby covenant and agree with each other and with the party of the fourth part that the Nassau Company may connect its tracks with those of the Brooklyn Company in Flatbush avenue *as hereinbefore recited,* the Nassau Company enjoying with the Brooklyn Company and the Brooklyn Heights Company, a right in common to the use of the tracks and appurtenances of the Brooklyn Company in *that portion of Flatbush avenue lying between Atlantic avenue and the point of intersection of said extension with the easterly bound track of the Brooklyn Company in Flatbush avenue* and the Brooklyn Company and the Brooklyn Heights Company further covenant and agree to allow such joint use of their tracks and appurtenances *in the portion of Flatbush avenue hereinbefore specified,* by the Nassau Company, its successors and assigns, or by the City or by any other company to which the City may hereinafter grant or lease any rights in said *portion* of Flatbush avenue."

And it is further agreed that the said agreement bearing even date herewith is delivered upon the express understanding that the meaning of the said portion thereof is and shall be as hereinbefore set forth, and not otherwise.

In witness whereof the Brooklyn Company, the Brooklyn Heights Company and the Nassau Company have caused these presents to be executed on their behalf by their Presidents, and their corporate seals to be hereunto affixed and attested by their secretaries, and The City of New York by its Mayor thereunto duly authorized by the Board of Estimate and Apportionment of the said City caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed, all the day and year first above written.

THE BROOKLYN CITY RAILROAD COMPANY,
By ...., President.
[SEAL.]
Attest: ...., Secretary.

THE BROOKLYN HEIGHTS RAILROAD COMPANY,
By ...., President.
[SEAL.]
Attest: ...., Secretary.

THE NASSAU ELECTRIC RAILROAD COMPANY,
By ...., President.
[SEAL.]
Attest: ...., Secretary

THE CITY OF NEW YORK,
By ...., Mayor.
[CORPORATE SEAL.]
Attest: ...., City Clerk.

(Here add acknowledgments.)

Which was adopted by the following vote

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan Brooklyn, The Bronx, Queens and Richmond—16.

New York, Westchester and Boston Railway Company.

The public hearing was opened on the form of contract for certain modifications and amendments of the ordinance of August 2, 1904, granting a franchise to the New York, Westchester and Boston Railway Company as amended by resolution approved by the Mayor July 21, 1905, and contract dated January 29, 1909.

The hearing was fixed for this day by resolution adopted May 25 1911.

Affidavits of publication were received from the "New York Press," the "Morning Telegraph" and the City Record.

James H. Goggin appeared in opposition to the proposed bridge over 180th street. Allen W. Wardwell of counsel for the Company appeared in favor. No one else desiring to be heard the Chair declared the hearing closed.

The following was offered:

Resolved, That the Board of Estimate and Apportionment hereby consents to certain changes, alterations and amendments in the route of the New York, Westchester and Boston Railway Company as granted by an ordinance of the Board of Aldermen approved by the Mayor August 2, 1904, as amended by resolution of the Board of Estimate and Apportionment approved July 21, 1905, and by contract dated January 29, 1909, and the right to cross certain streets, avenues, highways and public places and to construct, maintain and operate a railroad in, upon and across the streets, avenues, highways and public places on such amended route of said railroad and that the said Board also consents to certain modifications in the terms and conditions of the said ordinance as heretofore amended, such changed, altered or amended route and such modified terms and conditions being fully set forth and described in the following form of proposed contract for the grant thereof, embodying such terms and conditions as modify or alter said ordinance of the Board of Aldermen as heretofore amended, which said ordinance as heretofore amended otherwise remains unchanged as to all the other terms and conditions expressed therein, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows, to wit:

This contract, made this day of , 1911, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the New York, Westchester and Boston Railway Company (hereinafter called the Company), party of the second part, witnesseth:

Whereas, The City did by ordinance approved by the Mayor August 2, 1904, grant to the Company the right to cross certain streets and highways and the privilege to construct and operate a four-track railroad upon certain routes particularly set forth in section 1 of said ordinance, and as shown on certain maps and profiles therein referred to and filed in the office of the County Clerk of the City and County of New York. on the 23d day of June, 1904; and

Whereas, The Board did on July 14, 1905, adopt a resolution which was approved by the Mayor July 21, 1905, consenting to a change in the route of the Company; and

Whereas, The Board did on November 20, 1908, adopt a resolution which was approved by the Mayor November 30, 1908, authorizing the execution and delivery of a contract modifying and altering certain of the terms and conditions of the said ordinance of the Board of Aldermen approved by the Mayor August 2, 1904, as amended by the said resolution of the Board of Estimate and Apportionment approved by the Mayor July 21, 1905, and said contract so authorized was executed by the President and Secretary of the Company on January 29, 1909, and by the Mayor and City Clerk February 8, 1909, and bears the former date; and

Whereas, In and by said ordinance as amended by said resolution and said contract, the consent of the City was granted to the Company for the construction, maintenance and operation of the said railroad across certain enumerated streets, avenues or highways, either above or below the grade thereof within said City upon certain conditions therein fully set forth; and

Whereas, The Company has applied to the Board as the local authority of the City by a petition verified March 6, 1911, for the consent of such local authority to certain modifications and amendments in the ordinance approved by the Mayor August 2, 1904, as amended by resolution approved by the Mayor July 21, 1905, and by contract dated January 29, 1909, to wit:

1. By extending the time for the completion of a four-track railroad from the northerly line of the City south to East 174th street, one year, by amending section 5, paragraph 1 of said ordinance of August 2, 1904, as amended by said contract dated January 29, 1909, by changing the figures "1911" to "1912."

2. By permitting the temporary use of steam locomotive power by inserting in section 2, subdivision 15 of said ordinance of August 2, 1904, as amended by said contract dated January 29, 1909, after the words "except locomotive steam power," the following:

"Said New York, Westchester and Boston Railway Company may also operate the said railroad by steam locomotive power for a period of one year from September 1, 1911, and for such further periods as may be permitted by the Board of Estimate and Apportionment not exceeding in all a total period of two years"; and

Whereas, On the 10th day of December, 1910, the Board of Directors of said Company at a meeting of said Board of Directors duly held on said date, and by a vote of two-thirds of all the Directors of said Company, adopted a resolution altering and amending the route of the said Company as amended by the said resolution of July 21, 1905, and the said contract dated January 29, 1909, and which alterations and amendments are shown upon a certain map dated December 10, 1910, entitled:

"Map and profile of New York, Westchester and Boston Railway for New York county, New York, part of sections 1, 2 and 3 being map and profile of that part of the route of the main line of said Railway Company within said county extending from a point between Ludlow avenue and Westchester avenue east of Whitlock avenue in the Borough of The Bronx, City of New York, to a point in White Plains road near its intersection with Sagamore street in said Borough and City, and

"Map and profile of that part of the route of the branch line of said Railway Company within said county extending from a point in 177th street between Van Nest avenue and Berrian street in said Borough and City to a point in Bronx Park avenue between Chanute avenue and Craighill avenue in said Borough and City.

"All as altered, changed, amended and adopted by affirmative vote of two-thirds of all the Directors of the said Company on the 10th day of December, 1910," and signed by the Chief Engineer, President, Secretary and ten Directors, which map was filed in the office of the County Clerk of New York county on May 1, 1911; and

Whereas, The Company has applied to the Board as the local authority of the City by a second petition verified May 2, 1911, for the consent of such local authority for such change, alterations and amendments to the route of said railroad and for the right to construct, maintain and operate a railroad in, upon and across the streets, avenues, highways and public places on said amended route and for the modification of the said ordinance, resolution and contract in accordance therewith and for the further consent of such local authority to certain other modifications and amendments in the ordinance approved by the Mayor August 2, 1904, as amended by resolution approved by the Mayor July 21, 1905, and by contract dated January 29, 1909, to wit:

1. That the description of the main line of the Company as contained in section 1 of the contract of January 29, 1909, be altered and amended between a point at or near 174th street and a point at or near Adams street.

2. That the description of the branch line of the Company as contained in section 1 of the contract of January 29, 1909, be altered and amended between its point of divergence from the main line and a point at or near Bronx River avenue, between Chanute and Craighill avenues.

3. By striking out in section 2, subdivision 1 of the contract of January 29, 1909, the whole of the paragraph entitled: "Connection with the Present Subway-Elevated Route at West Farms road," and substituting therefor the following:

"In Connection with the President Subway-Elevated Route (Interborough Rapid Transit Company).

"Beginning at a point on the main line of the New York, Westchester and Boston Railway Company at or near Adams street; thence running southwesterly, crossing 180th street between Morris Park avenue and Berrian street (or Bronx Park avenue); thence crossing Berrian street and Lebanon street at or near their intersection; thence crossing 179th street and Devoe avenue at or near their intersection; thence crossing Bronx street between Clover street and Walker avenue and thence to a connection with the Interborough Rapid Transit Railroad on Boston road, between Clover street and Walker avenue."

4. By adding to section 2, subdivision 9 of the ordinance of August 2, 1904, a clause permitting superstructures of a greater width than sixty (60) feet at certain designated points and the construction of platforms and a station across certain designated streets within the width of the increased superstructures; and

Whereas, After due publication, public hearings were held by the Board upon the modifications and amendments contained in the first of the above petitions on the

27th day of April, 1911, and upon the modifications and amendments contained in the second of said petitions on the 25th day of May, 1911; and

Whereas, The Board has made inquiry as to the proposed modifications and amendments of said ordinance of 1904, resolution of 1905, and contract of 1909; and

Whereas, On the day of , 1911, the Board, as the local authority of the City, adopted a resolution granting to the Company the right to make such changes, alterations and amendments to the route of said railroad and the right to cross certain streets, avenues, highways and public places, and to construct, maintain and operate a railroad in, upon and across the streets, avenues, highways and public places on such amended route of said railroad, and gave its consent to the other modifications in the ordinance approved by the Mayor August 2, 1904, as amended by resolution approved by the Mayor July 21, 1905, and by contract dated January 29, 1909, and authorized the Mayor to execute and deliver a contract granting such rights in the name and on behalf of the City, which resolution was approved by the Mayor on the day of , 1911.

Now, therefore, in consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree, as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right to make such changes, alterations and amendments to the route of said railroad and the right to cross certain streets, avenues, highways and public places and to construct, maintain and operate a railroad in, upon and across the streets, avenues, highways and public places on such amended route of said railroad, which amended route is shown upon the map heretofore referred to and is more particularly described as follows:

1. The description of the main line of the Company as contained in section 1 of the contract of January 29, 1909, is hereby amended by striking therefrom that portion of said description reading as follows:

"Thence crossing 174th street and Van Nest avenue, between Devoe avenue and the Harlem River and Port Chester Railroad; thence running northerly substantially parallel to Devoe avenue and crossing 177th street, Wyatt street and Walker avenue (West Farms road), between Devoe avenue and Berrian street; thence crossing 179th street and Lebanon street, between Devoe avenue and Berrian street; thence crossing 180th street and Berrian street at or near their intersection; thence crossing Adams street, between Morris Park avenue and the easterly line of Bronx Park," and substituting therefor the following: "Thence crossing 174th street and Van Nest avenue, between Devoe avenue and the Harlem river and Port Chester Railroad; thence running northeasterly and crossing an unnamed street between Devoe avenue and Van Nest avenue; thence crossing 177th street at its junction with Berrian street (or Bronx Park avenue) and thence crossing Wyatt street, 178th street, Walker avenue (or West Farms road), Lebanon street, 180th street and Adams street, between Morris Park avenue and Berrian street (or Bronx Park avenue)."

2. The description of the branch line of the Company as contained in section 1 of the contract of January 29, 1909, is hereby amended by striking therefrom that portion of said description reading as follows:

"Beginning at a point on the main line near the junction of Walker avenue (West Farms road) and Devoe avenue; thence running southerly crossing Wyatt street and Tremont avenue, between Devoe avenue and Berrian street," and substituting therefor the following:

"Beginning at a point on the main line near its intersection with Tremont avenue (East 177th street); thence running southerly crossing an unnamed street between Devoe avenue and Van Nest avenue."

3. Section 2, subdivision 1 of the said contract of January 29, 1909, is hereby amended by striking out therefrom the whole of the paragraph entitled:

"Connection with the Present Subway-Elevated Route at West Farms Road," and substituting therefor the following:

"Connection with the present subway-elevated route of the Interborough Rapid Transit Company at West Farms.

"Beginning at a point on the main line of the Company at or near Adams street; thence running southwesterly and westerly and crossing 180th street, between Morris Park avenue and Berrian street; thence crossing Berrian street and Lebanon street at or near their intersection; thence crossing 179th street and Devoe avenue at or near their intersection; thence crossing Bronx street, between Clover street and Walker avenue, and thence to a connection with the Interborough Rapid Transit Railroad on Boston road, between Clover street and Walker avenue."

The amended routes hereby authorized are more particularly shown upon a map entitled:

"N. Y. W. & B. Ry. Map showing proposed change of route between 174th street and Unionport Rd. and proposed change in connection with Interborough Rapid Transit Co., to accompany petitions dated March 6, 1911, and May 2, 1911, to the Board of Estimate and Apportionment," and signed by L. S. Miller, President, and J. L. Crider, Chief Engineer; a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed, provided that deviations therefrom which are consistent with the foregoing descriptions and the other provisions of this contract may be permitted by resolution of the Board.

Section 2. The grant of this privilege is subject to the following conditions:

First—All the terms, provisions and conditions contained in the said ordinance approved by the Mayor August 2, 1904, the said resolution of the Board, approved by the Mayor July 21, 1905, and the said contract. dated January 29, 1909, shall remain unchanged and shall apply to the routes described in said ordinance as amended, as hereby further amended, with the same force and effect as when they applied to the routes described in said ordinance as amended, and as though the changes in route herein authorized had been specifically described in said ordinance as amended, except as follows:

1. Section 5, paragraph 1, of said ordinance of August 2, 1904, as amended by said contract dated January 29, 1909, is hereby amended to read as follows:

"Said Railroad Company shall commence actual construction within one year from the date of the signing of this ordinance by the Mayor and shall complete a four-track railroad upon the main line from the northerly line of the City as far south as East 174th street by the 2d day of February, 1912, otherwise this grant shall cease and determine."

2. Section 5 of said ordinance of August 2, 1904, is hereby further amended so the last paragraph of said section shall read as follows:

"The Board of Estimate and Apportionment shall have power to extend the time provided for in this section for the completion of the railway and for the work to be performed and expenditure to be made as above for a period or periods not exceeding in the aggregate three (3) months, but such extension shall not be made unless the reasons given by the grantee for non-fulfillment are, in the opinion of the Board of Estimate and Apportionment, for causes over which the grantee had no control and was in no wise responsible."

3. Section 2, subdivision 9th of said ordinance of August 2, 1904, is hereby amended by adding at the end thereof the following:

"Except that the width of such superstructures at the following streets may be as herein designated: (1) Unnamed street (between 174th and 177th streets), 70 feet; (2) 177th street, 70 feet; (3) Lebanon street (between Berrian street and Morris Park avenue), 100 feet; (4) 180th street, 281 feet; (5) Adams street, 277 feet; (6) Berrian street, between Bronx Park and Morris Park avenues, 250 feet; (7) Berrian street (between 180th street and Lebanon street), 215 feet; (8) Lebanon street (between Berrian street and Devoe avenue), 195 feet; (9) Unionport road, 140 feet.

"And provided further that at 180th street, Adams street and Berrian street, platforms and a station may be constructed across the said streets within the width of the superstructure above designated."

Second—The Company hereby agrees to assume all liability to any person or corporation by reason of the execution of this contract, the change of route herein authorized and the abandonment of the route herein described, and it is a condition of this contract that the City shall assume no liability whatsoever either to any person or corporation on account of the same, and the Company hereby agrees to repay to the City any damage which the City may be compelled to pay by reason of this contract, and by the said change of route and abandonment.

Section 3. The Company covenants and agrees to abandon and relinquish, and does hereby abandon, surrender and relinquish to the City all of its rights and franchises to construct, maintain and operate a railroad in, upon or across the streets on those portions of the route described in the said ordinance approved by the Mayor August 2, 1904, as amended by resolution approved by the Mayor July 21, 1905, and by contract dated January 29, 1909, to wit: (a) Main line between 174th street and Unionport road; (b) branch line from its junction with the main line to Van Nest avenue; (c) connection with the Interborough Rapid Transit Company; which are not covered by the description of the new and amended routes as herein described, and which are not shown on the map of the amended route hereinabove referred to as having been filed in the office of the County Clerk of New York County on the 1st day of May, 1911, and which are not shown upon the map accompanying the said petitions of March 6 and May 2, 1911, a copy of which is attached hereto and forms a part of this contract.

Section 4. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all of the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,
By........................., Mayor.
[CORPORATE SEAL.]
Attest:
........................, City Clerk.

NEW YORK, WESTCHESTER AND BOSTON, RAILWAY COMPANY,
By......................., President.
[SEAL.]
Attest:
........................., Secretary.

(Here add acknowledgments.)

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Riverside Light and Power Company.

The public hearing was opened on the petition of the Riverside Light and Power Company for a franchise to construct, maintain and operate certain conduits and conductors for supplying electricity for light and power within the district bordering on the Hudson River, between 129th and 134th streets, Borough of Manhattan.

The hearing was fixed for this day by resolution adopted June 8, 1911.

Affadivits of publication were received from the New York "Herald," the New York "Press" and the City Record.

George Tirman appeared on behalf of Beardsley, Hemmens & Taylor, counsel for the Consolidated Telegraph and Electrical Subway Company and requested the matter be referred to the Corporation Counsel. No one appeared in favor. No one else desiring to be heard, the Chair declared the hearing closed.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, June 27, 1911.

Hon. William J, Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—At the meeting of the Board of Estimate and Apportionment held May 25, 1911, the petition of the Riverside Light & Power Company for permission to construct, maintain and operate certain conduits and conductors for supplying electricity for light and power in a limited district of the Borough of Manhattan, bordering on the Hudson River, between 129th street and 134th street, was presented. This application is made for the purpose of validating the existence in the public streets of certain conduits and conductors laid without authority by the Conron Brothers Company, in connection with certain refrigerating pipes also laid by them and for the maintenance of which that Company has recently received the consent of the Board. The method of construction of these conduits has already been described in a report of this Bureau on the application of Conron Bros. Company, which report was submitted at the meeting held December 9, 1910, and from which the following is quoted:

"* * * It was found that Conron Bros., the predecessors of the present Company, had constructed a 12-inch wooden conduit containing three pipes under and across Manhattan, West 131st and West 132d streets. One of these pipes contained the electrical conductors——, which were being used to distribute electric current for lighting purposes to the buildings * * * on the west side of 12th avenue, from West 129th street to West 133d street. The other two pipes in the same conduit were being used to distribute brine for refrigerating purposes to these same concerns."

It was also found that the above constituted portions of a continuous electric and refrigerating conduit laid within the right-of-way of the New York Central and Hudson River Railroad Company, except for the street crossings mentioned, from below West 129th street to above West 132d street. The additional right to construct in 133d street west of 12th avenue and in 131st street for 125 feet east of 12th avenue is also asked for, and the privilege of constructing refrigerating conduits in these streets has already been granted to Conron Brothers Company. The right in 133d street is asked for in order to allow of the extension of the present electrical business to the block north thereof in the future, and the right in 131st street for the purpose of allowing a connection at a later date with the plant which Conron Bros. Company proposes to construct on certain land owned by it in this street when the lease of their present quarters on the west side of 12th avenue expires. This lease, I am informed, will expire in about six years from the present date.

Subsequent to the presentation of this petition to the Board a protest was received from the Consolidated Telegraph and Electrical Subway Company against the granting of that portion of the petition requesting the privilege of constructing and maintaining conduits, claiming:

1. That the right to construct, maintain and operate conduits or subways for electrical conductors is regulated by the subway acts.

2. That the rights asked for infringe upon the privileges of the Consolidated Telegraph and Electrical Subway Company, because that Company "has the exclusive right * * * to build, maintain and operate subways for the reception of high tension electrical conductors * * * in the Boroughs of Manhattan and The Bronx * * *"

3. That the Board of Estimate and Apportionment has no power to give permission to the applicant to construct, operate or maintain conduits in the neighborhood specified, or in any other part of the Boroughs of Manhattan and The Bronx.

In maintenance of its first proposition, the Company in its brief cites the subway acts, and its contracts under the same, hereinafter to be referred to; the statement of counsel in relation to the first contract contained in the Third Report of the Board of Electrical Control, pages 47-51; People ex rel. Consolidated Telegraph and Electrical Subway Company vs. Monroe, 85 App. Div., 542; People ex rel. New York Electric Lines Company vs. Squire, 107 N. Y., 594; Brush Elec. Ill. Co. vs. Subway Co., Special Term, May, 1891, affirmed 60 Hun, 446; American Rapid Telegraph Co. vs. Hess, 65 Hun, 610; U. S. Illg. Co. vs. Hess, 19 N. Y. St. Rep., 883; Western Union Telegraph Co. vs. Mayor, U. S. Circuit Court, April 12, 1889.

On its second proposition reference is made to U. S. Illg. Co. vs. Mayor, N. Y. Supreme Court, Special Term, 1889; Armstrong vs. Mayor, Supreme Court, Special Term, March, 1890; Brush Co. vs. Subway Co., cited above.

The third proposition is held to be maintained by the following case, as cited, "Henry vs. Mayor, Supr. Ct., 91, Truax, J., Special Term."

The first Subway Act was Chapter 534 of the Laws of 1884. This act required the owners or controllers of telegraph, telephone, electric or other wires and cables and the poles thereof, to have the same removed, before the first day of November, 1885, from the surface of all streets or avenues in every city of the State having a population of 500,000 or over. This act contained the following provision:

"No city in this State shall grant any exclusive privilege or franchise under this act to any corporation or individual by which a monopoly may be created or competition prevented on equal terms."

This statute having proved ineffective for the purpose for which it was passed, the Legislature at the next session passed another act known as chapter 499 of the Laws of 1885. By the provisions of this law there was created a board to be known as the Board of Commissioners of Electrical Subways, who in all cities having a population exceeding 1,000,000 were to be appointed by the Mayor, Comptroller and Commissioner of Public Works. This Board was charged with the responsibility of enforcing the provisions of chapter 534 of the Laws of 1884, and contained a provision that if "no suitable plan is proposed or in use within sixty days after the passage of this act, it shall be the duty of such board to cause to be devised and made ready for use such a general plan as will meet the requirements of said act and of this act, and the Board shall have full authority to compel all companies operating electric wires to use such subway so prepared in accordance with the provisions of this act."

Chapter 503 of the Laws of 1886 amended the statute of 1885, in relation to the salary of the Commissioners, and the method of raising the moneys to pay the same. It appearing that no suitable plan had been proposed by the companies operating electrical conductors in The City of New York within the sixty days prescribed in the Act of 1885, the Board in the then City of New York proceeded to lay out a general plan of underground conduits, and in furtherance of said plan entered into a contract with a company known as the Consolidated Telegraph and Electrical Subway Company, which contract is dated July 22, 1886, and was acknowledged by the parties executing the same July 27, 1886 (the form of this contract is set forth in the minutes of the Commissioners of Electrical Subways, Vol. 1, pages 71, 72 and 106). This contract recited that the Consolidated Company was willing and desirous to act as the servant of the Commissioners of Electrical Subways and The City of New York, and contained a provision that the parties of the first part, viz., the Commissioners of Electrical Subways, agree to use all lawful means in their power to compel all authorized companies or persons using electric conductors to comply with the subway acts and to place their conductors in the subways to be built by the Consolidated Company and pay a fair rental for the space occupied therein.

Mr. Daniel J. L. Gibbons, the counsel of the Commissioners, at the meeting held July 22, 1886, made a certain statement intended as an interpretation of the relations which would exist between the Commission and the Company under the contract, in which statement the following appears:

"To my mind the Commission will stand precisely in the position of one who is obligated to do a certain work and who engages with somebody else to do such portion of that work as he may direct that somebody else to do for a consideration—not at any time to be above a certain amount—such as he may deem fair. The Company, to my mind, will stand in the position of one accepting a subordinate place under the first named,"

—and

"* * * It is the intent of this contract that after these subways are completed, the Commission shall use all lawful means in their power to compel all companies using electrical conductors to use the subways and to pay for such use a rental which shall be fair to the contracting company, as well as to the electrical companies if there is a margin for such a fair rental within the stated limit."

(Cited by Consolidated Telegraph Company in its brief.)

This statement of Mr. Gibbons is set forth in full in the Third Report of the Board of Electrical Control at pages 50-55, and is stated to have been accepted by the Consolidated Company. It is to be noted, however, that the agreement of April 7, 1887, modified the contract of July 27, in several important particulars, among which is the provision in the latter contract that the Consolidated Company was not to be the servant or agent of the parties of the first part or of The City of New York, but was intended to be dealt with as an independent party having and acquiring such rights for itself as the contract secured to it. (Paragraph VIII.). This contract also modified the provision under which the Commissioners of Electrical Subways agreed to use all lawful means to compel the use of the subways to be built by the Consolidated Company by providing that the Mayor, Aldermen and Commonalty of The City of New York should not be liable for any neglect, failure or refusal in the premises of the party of the first part or their successors (Paragraph XIII.), and also provided that nothing in the contract should be construed as granting to the Consolidated Company any exclusive privileges, immunity or franchise whatsoever (Paragraph XVI.). This contract is set forth in the minutes of the Board of Commissioners of Electrical Subways, Vol. 1, pages 112 and 117.

Chapter 716 of the Laws of 1887 created the Board of Electrical Control in The City of New York and ratified the agreements entered into with the Consolidated Telegraph and Electrical Subway Company, above referred to, "subject, however, to all the provisions of this act." Section 7 of this act provided that upon failure by the Board of Electrical Control or its successors or by the Consolidated Telegraph and Electrical Subway Company to observe and perform all the provisions of that act and the previous acts or of the said agreements, then upon application the courts might by proper proceedings in the nature of a writ of mandamus enforce the provisions of the same or grant such relief as might be proper in the premises.

The two subsequent laws, chapter 550 of the Laws of 1890, and chapter 383 of the Laws of 1891, were passed for the purpose of extending the term of the Board of Electrical Control, but chapter 231 of the Laws of 1891, authorized the Board of Electrical Control to enter into new contracts with the Consolidated Telegraph and Electrical Subway Company and with the Empire City Subway Company, Limited, providing for a division of the work of constructing, maintaining and operating subways, such new contracts to be in accordance with the resolutions of said Board adopted December 15, 1890. The resolution of December 15, 1890, will be found in the minutes of the Board of Electrical Control, Vol. 1, page 1018, and the contracts in relation to the division of the work are set forth in the same minutes, Vol. 2, page 1120.

The contract with the Consolidated Company which was dated May 15, 1891, provided that the previous agreements were to remain in full force and effect, except as modified by this contract which relieved the Company from its obligations in relation to the building, owning, maintaining and operating subways or telegraph and telephone conductors or for low-tension electric light conductors of the Edison Electric Illuminating Company.

Chapter 263 of the Laws of 1892, chapter 396 of the Laws of 1893, and chapter 207 of the Laws of 1894, were all passed for the purpose of extending the term of office of the Board, but the act of 1892, in section 2 thereof, provided that no corporation or individual should take up the pavements of the streets for the purpose of laying any electrical conductors or constructing any conduit or subway underground without the consent of the Board, thus in effect modifying section 4 of chapter 716 of the Laws of 1887, which only provided for the placing underground of electrical conductors.

The present statutory rule relating to the removal of overhead conductors is contained in sections 525 to 529 of the Greater New York Charter.

Section 525, which relates to the removal of these conductors in the Boroughs of Manhattan and The Bronx, and provides that all overhead conductors required to be placed underground shall be placed underground under and in accordance with the provisions of chapter 716 of the Laws of 1887; chapter 231 of the Laws of 1891; chapter 263 of the Laws of 1892 and the laws amendatory thereof, and supplemental thereto, and that no permission shall be granted by the Commissioner of Water Supply, Gas and Electricity to lay underground conductors except in accordance with the provisions of said laws.

Section 528 provides that after the passage of the act, it shall be unlawful for any person or corporation *to construct subways* without having first obtained permission from the Commissioner of Water Supply, Gas and Electricity with the written approval of the proper Borough President. These provisions are similar to those contained in sections 581 to 585 of the previous charter, chapter 378 of the Laws of 1897.

The above are the various laws and contracts which it is claimed by the Consolidated Telegraph and Electrical Subway Company in its brief are binding upon the present City of New York in the authorization of the laying of underground electrical conductors and conduits within the Boroughs of Manhattan and The Bronx. The Company's assertion, however, that it has the exclusive privilege of laying these subways within the Boroughs appears to have been decided adversely by the Corporation Counsel in the following opinions:

Opinion dated October, 1889, to Hon. Hugh J. Grant, Mayor, and set forth in full in the minutes of the Board of Electrical Control, Vol. 1, pages 818 to 820.

Opinion dated June 5, 1909, to the Board of Estimate and Apportionment, and set forth in the minutes of that Board for the year 1909, at pages 3188 to 3193. This opinion cites the case of the Empire City Subway Company against the Broadway and Seventh Avenue Railroad Company, 87 Hun, 279, which, I am informed. was affirmed in 159 N. Y., 555, where it is stated that the courts squarely held that the contract of that Company, which is similar in form to that of the Consolidated Company, gave no exclusive right to maintain subways and conduits for electrical conductors in the streets of the City. One other opinion has been found, dated February 17, 1890, given to the Board of Electrical Control, wherein the Corporation Counsel refused to consider the validity of the claim of the Consolidated Telegraph Company to an exclusive right, because of the circumstances which arose requiring the rendering of that opinion.

The Company cites cases which appear to validate its claim to an exclusive privilege. Among others, I find cited the opinion of Justice Andrews in United States Illuminating Company vs. Mayor, referred to above, a copy of which opinion is contained in the Third Report of the Board of Electrical Control, pages 142 to 161. This was given in an action to restrain the removal of the Company's poles and overhead wires under a resolution of the Board of Electrical Control, and while the said opinion does state that the Consolidated Company had the sole and exclusive right to construct subways, it is probable that this question was considered in connection with the rights of the United States Illuminating Company which had been deprived of the privilege of constructing said subways by the subway acts. However, the rulings of the Corporation Counsel on this point appear to be clear and undisputed, with the possible exception of those opinions referred to in the brief of the Consolidated Company.

The other point made by the Consolidated Company is that the Board of Estimate and Apportionment has no authority to authorize any person or corporation to build subways or dig a tunnel for the reception of high-tension electrical conductors until under its contracts with the Board of Commissioners of Electrical Subways the Consolidated Company shall have become unable or fail in any respect to carry into effect or perform those contracts. This state of affairs the Company asserts has never existed.

The opinion of the Corporation Counsel, dated June 5, 1909, above referred to, calls attention to the clause of these contracts requiring that the Board of Commissioners of Electrical Subways should use all lawful means within its power to compel all authorized companies or persons using electrical conductors to place their conductors in the subways of the said Company, and in considering this clause in connection with certain revocable privileges which the City had been asked to grant allowing the laying of conduits for electric wires across a street connecting properties of the petitioner, it is stated:

"In my opinion, therefore, the laying of conduits across a City street is of too trivial a nature to interfere in any way with any rights enjoyed by the Company under said contracts. But should the City decide to issue a license to connect buildings not directly opposite each other, good faith upon the part of the City might indicate that in such case the grantee should be compelled to use the conduits of the Subway Company, if such were available."

The Consolidated Telegraph and Electrical Subway Company having raised the issue as to the exclusiveness of its grant and the power of the Board with respect to the application of the Riverside Light and Power Company, it would seem necessary and desirable to obtain an opinion from the Corporation Counsel which would definitely settle these questions. The present application requires neither the removal of existing overhead wires nor the construction of additional electrical conduits except in the two streets to which attention has been called, but circumstances might tend to change the aspect of the questions involved, and it would certainly appear desirable that any opinion asked for contain as much authoritative information as possible for the present and future guidance of the Board.

It would seem true, in view of the ruling in a recent case, that those companies which were in existence and operating under franchises previous to the enactment of the subway acts were deprived of all authority to lay underground conduits for their conductors, and that with respect to those companies the Consolidated Telegraph Company has the exclusive privilege of laying such conduits. It may be that this was what was intended to be conveyed in the opinions cited in the various actions referred to in the brief of the Company.

Previous protests by the Consolidated Company against the granting of revocable privileges authorizing the construction of conduits for electrical conductors have called forth the opinion of June 5, 1909, referred to above, and a previous opinion of December 21, 1905, which was presented to the Board of Estimate and Apportionment January 12, 1906. None of these protests required a ruling by the Law Department as to the rights and powers of the City and the Board in connection with applications for the grant of franchises involving the construction or use of underground conduits for conductors to supply light, heat and power.

Before concluding, attention is called to the fact that at an informal hearing held before Commissioner Maltbie of the Public Service Commission for the First District in connection with the Conron Bros. Company electric plant, on April 13, 1911, the New York Edison Company submitted a map showing its connections in the territory involved. This map shows some conduits of the Consolidated Company on 12th avenue between 129th and 133d streets, and in the streets crossing the same between these points, but a large portion of this subway is what is designated as Consolidated Subway-Edison Main. The conduit of the Riverside Company is on the right-of-way of the New York Central and Hudson River Railroad Company west of 12th avenue, as before stated, and I have no information on which to determine whether the Consolidated Company has at the present time sufficient conduits in its subways in this neighborhood to furnish accommodations to the Riverside Company, were the said Riverside Company given a franchise requiring it to use those subways.

Subsequent to the submission of the brief of the Consolidated Company, above noted, attorneys for that Company transmitted to this office an opinion of the Board of Gas and Electric Light Commissioners of the Commonwealth of Massachusetts dated May 17, 1911, overruling the Board of Aldermen of The City of Worcester in granting the privilege to an individual to lay conduits and mains to supply heat, light and power from one building owned by him to another building diagonally across the street, which is owned by a corporation of which he had control. This, however, I do not believe has any effect on the question at present in issue, as the consent there given appears to be in the nature of a revocable privilege, the validity of which in this City has already been discussed in the opinions of the Corporation Counsel above noted.

There was also transmitted an opinion of the Board of Utility Commissioners of the State of New Jersey dated November 17, 1910, in the matter of the application of the Atlantic Highlands Gas Company for the approval of an ordinance authorizing it to use the streets of the township of Shrewsbury, wherein the question of competition by a new company, with an already established public service company apparently attempting in good faith to give proper service, was considered, and the application of the new company denied. This opinion, however, does not appear to be strictly applicable to the present case and would seem to me more strictly parallel were it a question raised by the New York Edison Company which is supplying electricity in the Borough of Manhattan, to the granting of a privilege in territory where it was already operating.

Information asked from the Riverside Company has been furnished the Bureau stating that its plant was furnishing electricity to eight individuals and companies within the territory for which it has asked the privilege, and that none of these individuals or companies is being furnished current by any other company, although the New York Edison Company and the United Electric Light and Power Company operate in the vicinity.

A public hearing having been set on this petition for Thursday, July 6, 1911, and the question raised by the Consolidated Company preventing the preparation of a form of contract granting the privilege applied for, for the consideration of the Board, it would seem necessary that this matter be now submitted to the Corporation Counsel in order to allow of the proper progress of the Company's application in the fall.

It is therefore recommended that copies of the brief of the Consolidated Company and the application of the Riverside Company be referred to the Corporation Counsel and that he be requested to advise the Board,

1. If the claim of the Consolidated Telegraph and Electrical Subway Company to an exclusive franchise for the construction and maintenance of electrical conduits in subways within the Boroughs of Manhattan and The Bronx is valid?

2. Whether the Board has power and authority to grant the application of the Riverside Light and Power Company or any other electrical company similarly situated,

(a) For the purpose of legalizing the existence and the future operation of the present existing conduit and conductors of this Company.

(b) For the purpose of authorizing the construction of extensions to the said conduit and conductors. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The Riverside Light and Power Company has, by a petition duly presented to this Board at its meeting held May 25, 1911, applied for the right to construct, maintain and operate conduits and conductors for supplying electricity for light and power in a limited district of the Borough of Manhattan, bordering on the Hudson River, between 129th street and 134th street, and

Whereas, The Consolidated Telegraph and Electrical Subway Company, a corporation operating subways and conduits for electrical conductors in the Boroughs of Manhattan and The Bronx, has protested against the granting to the Riverside Light and Power Company of the privilege of constructing subways and conduits as applied for; now, therefore, be it

Resolved, That the Corporation Counsel be and he is hereby requested to advise this Board as to its power to grant the application of the Riverside Light and Power Company and as to the issues raised by the Consolidated Telegraph and Electrical Subway Company in the protest before mentioned, which are discussed in the report of the Bureau of Franchises submitted to the Board this day.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Lakeville Holding and Development Company.

The public hearing was opened on the applications (three) of the Lakeville Holding and Development Company for permission to erect, maintain and use single span bridges over and across (a) Alley road; (b) Little Neck road; (c) Clinton avenue, Borough of Queens.

The hearing was fixed for this day by resolution adopted June 22, 1911.

An affidavit of publication was received from the City Record.

No one appeared in opposition to or in favor of the proposed grants and the Chair declared the hearing closed.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, June 27, 1911.

Hon. William J. Gaynor, *Mayor, Chairman Board of Estimate and Apportionment:*

Sir—The Lakeville Holding and Development Company has presented three petitions dated June 1, 1911, to the Board of Estimate and Apportionment for permission to erect, maintain and use single span bridges over and across Alley road, Little Neck road and Clinton avenue, in the Borough of Queens.

The petitions recite that the Company has acquired a strip of land extending from Lake Success, in Nassau County, near the City line, westerly to Rocky Hill road in the Borough of Queens, upon which land it proposes to construct a motor parkway to connect with the existing motor parkway of the Long Island Motor Parkway, Inc., running easterly from Lake Success through Nassau and Suffolk Counties to Lake Ronkonkoma. The parkway is to be used exclusively by motor vehicles upon payment of a fee, and the proposed bridges are desired in order to carry the parkway over the said roads and avenues and thus avoid grade crossings.

At the meeting of the Board held June 8, 1911, the petitions were referred to the Bureau of Franchises for investigation and report.

In accordance with the usual custom, copies of the petitions with accompanying plans were forwarded to the President of the Borough of Queens, with a request that examinations of the project be made with a view to ascertaining if there are any objections to the proposed bridges or any particular conditions which should be incorporated in the form of revocable consents used for private bridges over the City streets, in case the Board should decide to grant the requested permission in the form of a revocable privilege.

In a reply dated June 14, 1911, the Secretary of the Borough of Queens transmitted a copy of a report from the Engineer in Charge of the Topographical Bureau, raising the question of policy of permitting such a project within the City limits. The communication stated that the Borough President desired a public hearing to be held on the matter, and at the meeting of the Board held June 22 a public hearing was fixed for July 6, 1911.

I made a personal examination of the existing parkway from Lake Success easterly. It is about forty miles in length with a paved roadway twenty-one feet in width. The grade crossings on the westerly twenty miles have been entirely eliminated by carrying the parkway over or under the highways under authority obtained from the various State, county and town officials having jurisdiction. Grade crossings on the easterly twenty miles of the parkway have been made as safe as possible by regrading the intersecting highways and removing obstructions so as to afford approaching vehicles a clear view of the crossing. This work has also been done under permission obtained from the authorities having jurisdiction over said highways. Copies of the above-mentioned authorizations have been submitted for my examination, and I find that in some cases the consents extend for a term of fifty years and in others no limit has been placed upon the duration of the permission, the consents being revocable should the grantee fail to comply with the terms and conditions imposed.

Access to the parkway has been provided at frequent intervals along its entire length and so-called lodges have been erected at those points for the collection of the fee for the use of the parkway. So far as I know, this project of maintaining a roadway on private property for the sole use of motor vehicles on the payment of a fee, is unique. Upon examination, it appears to be a natural development due to the conditions arising from the increased use of vehicles operated by mechanical power, both for business and pleasure. The petitioner is incorporated as a business corporation under the laws of the State of New York. The company appears to differ from a toll road company in the fact that the use of the parkway is restricted to a certain class of vehicles, and it has acquired all of its property at private sale, not being able to enjoy, as a toll road, the statutory provision for condemnation of the property necessary for its roadway.

In the absence of bridges carrying the motor parkway over the said roads and avenues, vehicles would be obliged to cross the highways at grade, and there would be more or less danger at the points of crossing. The proposed bridges will obviate this danger, and I cannot see any serious objections to granting revocable consents to their erection and maintenance.

If in the future it be found that conditions developed by use of the parkway render it advisable to require its operation to be conducted under the authority of a franchise, the consents for the bridges can readily be revoked, and the company will then be obliged to accept the necessary right to continue operating within the City limits under such terms and conditions as experience may indicate.

Should the Board see fit to grant the requested consent in the form of revocable privileges, I would suggest that consent be granted only during the pleasure of the Board, but in no case to extend beyond a term of ten (10) years from the date of the approval of the consent by the Mayor and revocable upon sixty days' notice, and that it be made a condition of the consent that security deposits in the sum of $1,000 be required for each bridge, said deposits to be in the form of either money or securities to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

At the rate of charge for private bridges over the City streets, the compensation for each of the three bridges would be less than the minimum of $100 per annum heretofore fixed by the Board. With the customary increase of five per cent. for the second term of five years, the compensation for the privileges requested should therefore be for each bridge: During the first term of five years the annual sum of $100, and during the second term of five years the annual sum of $105. Such sums should be paid into the City Treasury in advance on November 1 of each year.

In view of the fact that the street system of this portion of the Borough of Queens has not been fully developed, it has been made a condition of the consents that the grantee shall cede to the City free and clear title to those portions of its property within the continued lines of the bridges which the City may at any time require for the widening of the highways in question. It has been particularly provided in the resolutions herewith submitted for adoption that the grantee shall pay all costs of altering or removing the bridges and abutments made necessary by any future widening or change of grade of the said highways.

Separate resolutions are herewith submitted for adoption granting consent for each of the three bridges and containing the hereinabove suggested conditions.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The Lakeville Holding and Development Company has presented a petition dated June 1, 1911, to the Board of Estimate and Apportionment for its consent to the construction, maintenance and use of a bridge over and across Alley road, in the Borough of Queens, at a point about 1,950 feet southerly along said road from Marvin road; now therefore be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to the Lakeville Holding and Development Company, a domestic corporation, and the owner of certain properties on the easterly and westerly sides of Alley road in the Borough of Queens, City of New York, to construct, maintain and use a single span bridge about thirty feet in width outside dimensions and fourteen feet above the roadway over and across Alley road at a point 1,950 feet southerly measured along said Alley road from Marvin road, the said bridge connecting properties of the petitioner on said Alley road, for the purpose of carrying its parkway over and across said road, all as shown on the plan accompanying the application and entitled:

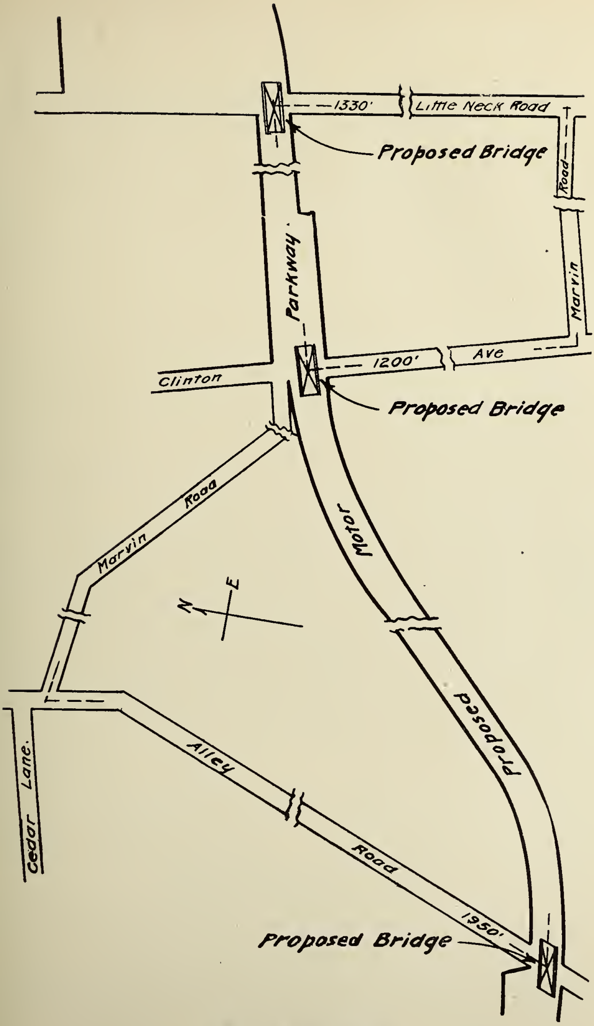
"Plan showing location of proposed bridge to be constructed over Alley road, Borough of Queens, to accompany application dated June 1, 1911, of the Lakeville Holding and Development Company to the Board of Estimate and Apportionment, City of New York."

—and signed Lakeville Holding and Development Company, William B. Anderson, Vice-president, and E. G. Williams, Chief Engineer.

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, during the first term of five years the annual sum of one hundred dollars ($100), during the second term of five years the annual sum of one hundred and five dollars ($105). Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.



Plan Showing
Proposed Bridges
for
Lakeville Holding and Development Co.

BUREAU OF FRANCHISES

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—

(a) Its construction, maintenance and removal.

(b) The protection of all structures which shall in any way be disturbed by its construction or removal.

(c) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(d) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(e) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(f) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curbline intersection.

It is made a particular condition of this consent that in case The City of New York should at any time during the term of this consent decide to widen Alley road, the grantee shall cede to the City, free and clear, title to all those pieces or parcels of land lying within the continued lines of the bridge and between the existing lines of Alley road and the lines of said road as so widened, and also that the grantee shall pay all costs of altering the bridge and removing the abutments made necessary by any future widening or change of grade of the said Alley road.

The grantee shall obtain the approval of the Municipal Art Commission to the plans for the proposed bridge as to its artistic design before the commencement of the construction of the bridge, provided action be taken by the said Commission within thirty days from the date of submission of the designs to it and a copy of such approval shall be filed with the Board of Estimate and Apportionment.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper

authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of one thousand dollars ($1,000), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of one thousand dollars ($1,000), and in default of the payment thereof, the consent hereby given may be cancelled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before July 1, 1912, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following was offered:

Whereas, The Lakeville Holding and Development Company presented a petition dated June 1, 1911, to the Board of Estimate and Apportionment for its consent to the construction, maintenance and use of a bridge over and across Clinton avenue, in the Borough of Queens at a point about 1,200 feet northerly, measured along Clinton avenue from Marvin road; now therefore be it

Resolved, That the Consent of the Corporation of The City of New York be and the same is hereby given to the Lakeville Holding and Development Company, a domestic corporation, and the owner of certain properties on the easterly and westerly sides of Clinton avenue in the Borough of Queens, City of New York, to construct, maintain and use a single span bridge about thirty feet in width, outside dimension, and fourteen feet above the roadway, over and across Clinton avenue, at a point 1,200 feet northerly from Marvin road, measured along said Clinton avenue; the said bridge to connect properties of the petitioner on Clinton avenue for the purpose of carrying its parkway over and across said avenue; all as shown on the plan accompanying the application, and entitled:

"Plan showing location of proposed bridge to be constructed over Clinton avenue, Borough of Queens, to accompany application dated June 1, 1911, of the Lakeville Holding and Development Company to the Board of Estimate and Apportionment, City of New York."
—and signed Lakeville Holding and Development Company, William B. Anderson, Vice-President, and E. G. Williams, Chief Engineer.

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted: During the first term of five years an annual sum of one hundred dollars ($100), and during the second term of five years an annual sum of one hundred and five dollars ($105). Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—

(a) Its construction, maintenance and removal.

(b) The protection of all structures which shall in any way be disturbed by its construction or removal.

(c) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(d) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(e) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(f) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

It is made a particular condition of this consent that in case The City of New York should at any time during the term of this consent decide to widen Clinton avenue, the grantee shall cede to the City, free and clear, title to all those pieces or parcels of land lying within the continued lines of the bridge and between the existing lines of Clinton avenue and the lines of said road as so widened, and also that the grantee shall pay all costs of altering the bridge and removing the abutments made necessary by any future widening or change of grade of the said Clinton avenue.

The grantee shall obtain the approval of the Municipal Art Commission to the plans for the proposed bridge as to its artistic design before the commencement of the construction of the bridge, provided action be taken by the said Commission within thirty days from the date of submission of the designs to it and a copy of such approval shall be filed with the Board of Estimate and Apportionment.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of one thousand dollars ($1,000), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of one thousand dollars ($1,000), and in default of the payment thereof, the consent hereby given may be cancelled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before July 1, 1912, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following was offered:

Whereas, The Lakeville Holding and Development Company presented a petition dated June 1, 1911, to the Board of Estimate and Apportionment for its consent to the construction, maintenance and use of a bridge over and across Little Neck road, in the Borough of Queens, at a point about 1,330 feet northerly, measured along Little Neck road from Marvin road; now therefore be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to the Lakeville Holding and Development Company, a domestic corporation, and the owner of certain properties on the easterly and westerly sides of Little Neck road in the Borough of Queens, City of New York, to construct, maintain and use a single span bridge about thirty feet in width, outside dimension, and fourteen feet above the roadway over and across Little Neck road, at a point 1,330 feet northerly from Marvin road, measured along said Little Neck road; the said bridge to connect properties of the petitioner on Little Neck road for the purpose of carrying its parkway over and across said road; all as shown on the plan accompanying the application, and entitled:

"Plan showing location of proposed bridge to be constructed over Little Neck road, Borough of Queens, to accompany application dated June 1, 1911, of the Lakeville Holding and Development Company to the Board of Estimate and Apportionment, City of New York."

—and signed Lakeville Holding and Development Company, William B. Anderson, Vice-President, and E. G. Williams, Chief Engineer.

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, during the first term of five years an annual sum of one hundred dollars ($100), and during the second term of five years an annual sum of one hundred and five dollars ($105). Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—

(a) Its construction, maintenance and removal.

(b) The protection of all structures which shall in any way be disturbed by its construction or removal.

(c) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(d) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(e) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(f) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

It is made a particular condition of this consent that in case The City of New York should at any time during the term of this consent decide to widen Little Neck road, the grantee shall cede to the City, free and clear, title to all those pieces or parcels of land lying within the continued lines of the bridge and between the existing lines of Little Neck road and the lines of said road as so widened, and also that the grantee shall pay all costs of altering the bridge and removing the abutments made necessary by any future widening or change of grade of the said Little Neck road.

The grantee shall obtain the approval of the Municipal Art Commission to the plans for the proposed bridge as to its artistic design before the commencement of the construction of the bridge, provided action be taken by the said Commission within thirty days from the date of submission of the design to it and a copy of such approval shall be filed with the Board of Estimate and Apportionment.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of one thousand dollars ($1,000), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of one thousand dollars ($1,000), and in default of the payment thereof, the consent hereby given may be cancelled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before July 1, 1912, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Kirkman & Son.

A communication was received from the agent for Kirkman & Son, stating the tunnel under and across Bridge street, north of Water street, Borough of Brooklyn, connecting premises of Kirkman & Son, on opposite sides of said street, has been completed.

This consent was granted by resolution adopted by this Board November 23, 1910, approved by the Mayor on the same day, and the notice is given in conformity with section 14 of the consent.

The communication was ordered filed.

New York City Interborough Railway Company.

In the matter of the petition of the New York City Interborough Railway Company for the right to construct, maintain and operate three extensions to its existing system in the Boroughs of Manhattan and The Bronx, as follows:

(a) Upon and along Lenox avenue to West 145th street to Broadway.

[illegible] om the intersection of St. Anns avenue and 149th street, upon and along 149th street and Southern boulevard to Leggett avenue, Borough of The Bronx.

(c) From the intersection of Intervale avenue and Dongan street, upon and along Dongan street to Stebbins avenue to East 163d street, to Elton avenue, to East 161st street, Borough of The Bronx.

At the meeting of June 8, 1911, a report was received from the Bureau of Franchises, submitting three forms of contracts to govern the proposed grants, together with two agreements providing for a single fare of five cents upon the street surface railways in the Borough of The Bronx and the use of the tracks of the Southern Boulevard Railroad Company on Southern boulevard.

The matter was referred to the Corporation Counsel to prepare a clause to overcome the objections of the Company, or approve the contracts and agreements as to form.

The Secretary presented the following:

Law Department, Office of the Corporation Counsel, City of New York, New York, June 26, 1911.

Board of Estimate and Apportionment:

Sirs—I have received from you the following communication, dated June 8, 1911, signed by Joseph Haag, Secretary:

"I transmit herewith certified copy of resolution this day adopted by the Board of Estimate and Apportionment, requesting the Corporation Counsel to approve certain proposed contracts and agreements governing the grant of a franchise to the New York City Interborough Railway Company, should same meet with your approval; or draft a provision to be inserted in said contracts to carry into effect the recommendations contained in the report relative to the interchange of transfers and a single fare of five cents upon the railways in the Borough of The Bronx.

"Enclosed herewith is a copy of the report from the Bureau of Franchises with the accompanying contracts and agreements.

"The New York City Interborough Railway Company has been furnished with a certified copy of the resolution."

I have no suggestions to make in regard to the proposed form of contract for the West 145th street line, and such contract, therefore, has my approval as to form.

In the other two franchise contracts, however, there are clauses contained therein which, as stated in the said report of the Bureau of Franchises, are unacceptable to the applicant Company. The chief point of difference arises from the inclusion of the clause which provides that the grant shall not become operative until the Company shall procure and cause to be executed and delivered to your Board an agreement that the Union Railway Company of New York City, the Southern Railroad Company and the applicant Company will agree between themselves and the City not to charge any passenger more than five cents fare for one continuous ride over the three lines operated by them or under their control.

A form of the proposed contract to be executed by all these parties was also sent to me. In the said report of the Bureau of Franchises, it is stated that it is preferable, if possible, to compel an exchange of passengers, or the furnishing of a continuous ride for one fare, by separate agreements rather than by the inclusion in the grant itself of a forfeiture penalty for non-compliance with such condition, because such a forfeiture would result in a cessation of operation over important connecting links of the Interborough system. The force of this reasoning is at once apparent, but if the said Company holds firm in its refusal to accept a grant on any such condition, it is for your Board to decide whether to grant any franchise whatsoever in view of such refusal or whether a forfeiture clause may not be substituted.

If the latter course be adopted I recommend that section 3 in the two other forms of franchise grant be amended to read as follows:

"Section 3. This grant is upon the express condition that throughout the term of this grant or any renewal or renewals thereof no passenger shall be charged more than five cents for one continuous ride over the routes or any part of the routes of the Company, the Union Railroad Company of New York City and the Southern Boulevard Railroad Company, and upon the failure of the said three companies or any of them to furnish such a continuous ride over their routes or over any part of their routes, at any time during the term of this grant or any renewal or renewals thereof, the rights hereby granted shall thereupon cease and determine."

As so amended, the 163d street contract will have my approval as to form.

In the 149th street contract, there is a further clause inserted which when renumbered will read as follows:

"Section 4. This contract shall not become operative until the Company shall procure and cause to be executed and approved in proper form for record and duly delivered to the Board of Estimate and Apportionment, an agreement with the Southern Boulevard Railroad Company, wherein said Company shall agree to permit the use of its tracks on Southern boulevard, between East 149th street and Leggett avenue, by the Interborough Company, its successors or assigns, the City, and any other company to which the City may hereafter grant or lease rights, and the compensation for such use shall not exceed the terms provided by section 2, fifth of this contract."

The Company is willing to accept such a clause, but I would advise that a forfeiture clause should be added thereto, reading as follows:

"And upon the failure of the said Southern Boulevard Railroad Company for any reason at any time hereafter to permit the use of its tracks on Southern boulevard, between East 149th street and Leggett avenue, by the Interborough Company, its successors or assigns, the City, and any other company to which the City may hereafter grant or lease rights, the rights hereby granted shall cease and determine."

With the above two amendments, the said 149th street contract will then have my approval as to form.

The proposed agreement between the Company and the Southern Boulevard Railroad Company has my approval as to form. Respectfully,

GEORGE L. STERLING, Acting Corporation Counsel.

Law Department, Office of the Corporation Counsel, City of New York, New York, June 28, 1911.

Board of Estimate and Apportionment:

Sirs—I have received from you the following communication, dated June 23, 1911, signed by Henry P. Nichols, Engineer Chief of the Bureau of Franchises:

"On June 8, 1911, there were sent you by the Secretary of the Board of Estimate and Apportionment three forms of Contract for franchises to the New York City Interborough Railway Company, in the Borough of The Bronx, together with a copy of a resolution adopted on that date, requesting you to draft a provision requiring the interchange of transfers for a single fare of five cents upon the railways in the Borough of The Bronx which would eliminate certain objections raised by the New York City Interborough Railway Company to the forms of contracts submitted to you, or if you did not believe that any such provision could be inserted in the contracts to accomplish such interchange of transfers on a single fare of five cents other than that proposed in said contracts, that you approve the contracts as to form.

The attorneys for the Company have called at this office today and have submitted an amendment to the contracts which the Company is willing to accept. This amendment is as follows:

"Page 25, section 3, the second paragraph to read as follows:

"'This contract shall not become operative until the Company shall procure and cause to be executed and approved in proper form for record and duly delivered to the Board, an agreement wherein the Union Railway Company of New York City, the Southern Boulevard Railroad Company and the Company shall each agree between themselves and with the City that a passenger paying a single fare upon a car on the east or west lines of any of said companies shall receive without further payment a ride north or south on any line of the other companies, and a passenger paying a single fare upon a car on a north and south line of any of said companies shall receive a ride east or west on any line of the other companies without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line without further payments.'

"This amendment also applies to section 3, second, on page 34, and also to the next to the last paragraph in the supplementary agreement on page 37.

"If this amendment provides for the interchange of transfers on a single fare of five cents, as set forth in the report of this office, a copy of which was transmitted to you, it is satisfactory as far as this office is concerned. If the same is satisfactory to you, will you please approve the contracts thus amended as to form. As it is desirable that this matter proceed as rapidly as possible, in order that the Company may complete its construction the coming fall, will you not submit your opinion in regard to the matter prior to the making up of the calendar for the meeting of July 6, so that action may be taken at that time?"

I have already passed upon the three proposed forms of franchise grant to the New York City Interborough Railroad Company in an opinion to your Board dated June 26, 1911. I now see a compromise has been effected as to the exchange of passengers on the lines affected.

In view of the fact that there is a possibility that some of the companies affected may in the future go into the hands of the receivers and so come under the jurisdiction of the courts, and that the courts, under such circumstances, might terminate these transfer agreements, I think it would be wise to insert a forfeiture penalty at the end of the paragraph in question reading as follows:

"And upon the failure of the said three companies or any of them to furnish such a continuous ride for one fare over their routes or over any part of their routes as herein provided at any time during the term of this grant or any renewal or renewals thereof the rights hereby granted shall thereupon cease and determine."

A smilar forfeiture clause should be added to section 3, subdivision second of the 149th street contract. The contracts in question as so amended, together with the amendment suggested by me in my said opinion to your Board of June 26 as to the form of section 4 of the 149th street contract will have my approval as to form.

Respectfully, C. D. OLENDORF, Acting Corporation Counsel.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 30, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—At the meeting of the Board held on June 8, 1911, there was presented a report upon an application of the New York City Interborough Railway Company for the right to construct, maintain and operate three extensions in the Boroughs of Manhattan and The Bronx. Three draft forms of contracts for the franchises—one contract for each extension—were submitted with the report, also two supplementary contracts which are required by the proposed terms for the franchises. At that time the Company stated that it was willing to accept the contracts with the exception of the provision with reference to the interchange of transfers between the existing railway companies in the Borough of The Bronx. It stated that it was the intention of these companies to exchange transfers, but it would not agree to the insertion of a clause in the contracts, requiring such exchange; the objection being principally to the form in which this condition was inserted in the contract. It offered as a substitute a clause by which the Interborough Company would agree not to charge more than five cents for a continuous ride over the lines of its railway and the railways of the Union Railway Company of New York City and The Southern Boulevard Railroad Company, and that if at any time during the contract a fare of a greater amount is charged for such a ride or the Company should fail to exchange its transfers, then the rights should cease and determine. It was pointed out in the report that should the forfeiture of such right occur, the operation upon what is believed will be an important crosstown line in the Borough of The Bronx would be destroyed, which would not be to the best interests of the traveling public.

Accordingly it was recommended that the matter be referred to the Corporation Counsel and that he be requested to draft a provision requiring the interchange of transfers and a single fare of five cents upon the railways in the Borough of The Bronx, which would eliminate the objection made by the applicant Company. A resolution to that effect was adopted on June 8, 1911, and the Corporation Counsel in reply thereto under date of June 26, 1911, makes certain suggestions as amendments to the proposed contract in case the City decides to accept the forfeiture clause.

While the matter was pending before the Corporation Counsel, representatives of the Company submitted a clause which it is willing to have inserted, which apparently requires the interchange of transfers as sought. The clause submitted by the Company is as follows:

"This contract shall not become operative until the Company shall procure and cause to be executed and approved in proper form for record and duly delivered to the Board, an agreement wherein the Union Railway Company, of New York City, The Southern Boulevard Railroad Company and the Company shall each agree between themselves and with the City that a passenger paying a single fare upon a car on the east or west lines of any of said companies as shall receive without further payment a ride north or south on any line of the other companies and a passenger paying a single fare upon a car on a north or south line of any of said companies shall receive a ride east or west on any line of the other companies without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line without further payments."

This was submitted to the Corporation Counsel under date of June 23, 1911, and in reply thereto under date of June 28, 1911, he suggests that there also be added a forfeiture provision, as follows:

"And upon the failure of the said three companies or any of them to furnish such a continuous ride for one fare over their routes or over any part of their routes as herein provided at any time during the term of this grant or any renewal or renewals thereof the rights hereby granted shall thereupon cease and determine."

These amendments are with reference to contracts for two of the extensions applied for, namely:

Upon East 149th street and Southern boulevard from St. Anns avenue to Leggett avenue and upon East 163d street and other streets from the intersection of Elton avenue with East 163d street to the intersection of Dongan street and Intervale avenue.

The attorney for the Company states that the Company is willing to accept the proposed amendment. This amendment will also apply to the supplementary agreements which are required by the terms of the contracts. The Corporation Counsel states that the contracts in question if so amended will receive his approval as to form and the proposed contracts and agreements as amended are submitted herewith.

If the Board sees fit to grant the franchises, it should adopt a resolution fixing a date for a final public hearing and request the Mayor to designate the newspapers in which the notice of such hearing must be published according to law. After such hearing is held and the matter has been on the minutes for thirty days, final action may be taken. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The New York City Interborough Railway Company has. under date of March 31, 1911, made application to this Board for the grant of the right, privilege and franchise to construct, maintain and operate a double track street surface railway as an extension to its existing system upon and along West 145th street from Lenox avenue to Broadway, Borough of Manhattan; and

Whereas, Section 172 of the Railroad Law and sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance to such laws this Board adopted a resolution on April 6, 1911, fixing the date for public hearing thereon, as April 27, 1911, at which citizens were entitled to appear and be heard, and publication was had for at least fourteen (14) days in the "Morning Telegraph" and New York 'Sun," newspapers designated by the Mayor, and in the City Record for ten (10) days immediately prior to the date of hearing, and the public hearing was duly had on such day, and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for and proposed to be granted to the New York City Interborough Railway Company, and the adequacy of the compensation proposed to be paid therefor; now, therefore, it is

Resolved, That the following form of the resolution for the grant of the franchise or right applied for by the New York City Interborough Railway Company, containing the form of proposed contract for the grant of such franchise or right, be hereby introduced, and entered in the minutes of this Board, as follows, to wit:

"Resolved, That the Board of Estimate and Apportionment hereby grants to the New York City Interborough Railway Company the franchise or right fully set out and described in the following form of proposed contract for the grant thereof. embodying all of the terms and conditions, including the provisions as to rates, fares and charges, upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of the City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of The City of New York, as follows," to wit:

Proposed Form of Contract.

This Contract, made this day of 1911, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the New York City Interborough Railway Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate a double track extension to its street surface railway, with the necessary wires and equipment for the purpose of conveying passengers only in the Borough of Manhattan, in The City of New York, upon the following route, to wit:

Beginning on West 145th street at its intersection with the westerly side of Lenox avenue, and there connecting with the road for which the Company has a franchise in West 145th street, thence westerly in and upon West 145th street to the easterly side of Broadway. And to cross such other streets and avenues, named and unnamed, as may be encountered in said route. Provided, however, that nothing in this contract shall be construed as permitting more than a double track in any portion of West 145th street.

The said route with turnouts switches and crossovers hereby authorized is shown upon a map entitled:

"Map showing proposed extension of the New York City Interborough Railway Company in the Boroughs of Manhattan and The Bronx, City of New York, to accompany petition dated March 31, 1911, to the Board of Estimate and Apportionment"

—and signed by Edward A. Maher, President, and A. E. Kalbach, Engineer, a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description, and the other provisions of this contract may be permitted by resolution of the Board.

Sec. 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within three (3) months from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or, in the event that such consents cannot be obtained within such time, the Company shall within said three (3) months, or within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company from the date upon which this contract is signed by the Mayor until March 31, 1928, with the privilege of renewal of said contract for the further period of twenty-five (25) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding twenty-five (25) years shall be reasonable, and either the City (by the Board) or the Company shall be bound upon request of the other to enter into a written agreement with each other fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of the original term of this contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of two thousand five hundred dollars ($2,500), in cash, within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years an annual sum which shall in no case be less than six hundred dollars ($600), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of six hundred dollars ($600).

During the second term of five (5) years an annual sum which shall in no case be less than one thousand one hundred dollars ($1,100), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand one hundred dollars ($1,100).

During the third term of five (5) years an annual sum which shall in no case be less than one thousand two hundred dollars ($1,200), and which shall be equal to five (5) per cent. of its gross annual receipts if such percentage shall exceed the sum of one thousand two hundred dollars ($1,200).

During the remaining term expiring March 31, 1928, an annual sum which shall in no case be less than one thousand three hundred dollars ($1,300), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand three hundred dollars ($1,300).

The gross annual receipts mentioned above shall be that portion of the gross receipts of the Company as shall bear the same proportion to its whole gross receipts as the length of the extension hereby authorized shall bear to the entire length of the railway of the Company in operation within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the treasury of the City on November 1 of each year and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City, pursuant to the Railroad Law, as amended.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City or resolution of the Board or any law of the State of New York.

Fourth—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions; and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, over the route hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment or any structures used in connection therewith, in streets and avenues hereinbefore described, shall be permitted by the Company, to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures, and additions and betterments thereto, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair, and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same, together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if, in the opinion of the Company, the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board, and the Board may fix a percentage upon the cost to be paid to the Company, at a sum in excess of the legal rate of interest if, in its opinion, such action is justified.

The Company shall not at any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of the railway which shall be constructed by the Company pursuant to this contract.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company, or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any wise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Seventh—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Eighth—The Company shall commence construction of the railway herein authorized within six (6) months from the date upon which the consents of the property owners are filed with the Board or from the date of the order of the Appellate Division of the Supreme Court, made pursuant to section 174 of the Railroad Law, confirming the determination of the Commissioners appointed thereunder, that such railway ought to be constructed and shall complete the construction and place the same in full operation within twelve (12) months from the date of filing such consents or the date of such order; otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City; provided that the period for commencement and the period for completion and placing the railway in full operation may be extended by the Board, but the total extension of time for either of such periods shall not exceed in the aggregate six (6) months; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligenty prosecuted by the Company, and provided further, that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board the Company shall, in writing, consent that the Board, either in its own name as a party, or in the name of the City as a party, may intervene in any such proceedings.

Ninth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Tenth—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permits so issued such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures, in the streets and avenues, over which such officials have jurisdiction and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Eleventh—Said railway shall be operated by underground electric power, substantially similar to the system of underground electric power now used by the street surface railways in the Borough of Manhattan, provided that any other power may be used, except locomotive steam power, horse power or overhead electric power, which may be lawfully used, approved by the Board and consented to by the abutting property owners in accordance with the provisions of law and by the Public Service Commission for the First District of the State of New York.

Twelfth—No wires for the transmission of power shall be permitted unless they be placed in conduits underneath or along the side of the railway. When such conduits are constructed the Company shall provide two (2) ducts not less than three (3) inches in diameter each for the exclusive use of the City. The Company hereby agrees that such ducts shall be used only by the Company and the City, as above.

Thirteenth—The rate of fare for any passenger upon said railway shall not exceed five (5) cents and the Company shall not charge any passenger more than five (5) cents for one continuous ride from any point on its road or on any road, line or branch operated by it or under its control to any other point thereof, or any connecting branch thereof within the limits of the City.

The Company shall carry free upon the railway hereby authorized during the term of this contract all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Fourteenth—No cars shall be operated upon the railway hereby authorized other than passenger cars and cars necessary for the repair or maintenance of the railway, [illegible] cars shall be operated upon the tracks of said railway.

Fifteenth—The Company shall attach to each car run over the said railway proper fenders and wheel guards, in conformity with such laws and ordinances as are now in force, or may hereafter, during the terms of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Sixteenth—All cars which are operated on said railway shall be heated during the cold weather, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Seventeenth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Eighteenth—Cars on the said railway shall run at intervals of not more than thirty (30) minutes both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board.

Nineteenth—The Company, so long as it shall continue to use any of the tracks upon the streets and avenues in which said railway shall be constructed, shall cause to be watered at least three (3) times every twenty-four (24) hours when the temperature is above thirty-five (35) degrees Fahrenheit, the entire width of the streets and avenues, except when the width of such streets and avenues shall exceed sixty (60) feet between curb lines, in which case the Company shall cause to be watered only sixty (60) feet in width of such roadway, and the Company shall provide for such purpose at least one tank car, the capacity of which shall be sufficient to water such streets and avenues in a satisfactory manner.

Twentieth—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, betweeen its tracks, the rails of its tracks, and for a distance of two (2) feet beyond the rails, on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Twenty-first—As long as said railway, or any portion thereof, remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. In case of the neglect of the Company to make pavement or repairs after the expiration of thirty (30) days' notice to do so from the President of the Borough of Manhattan, said President may make the same at the expense of the Company. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City officials, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

Twenty-second—Any alteration to the sewerage or drainage systems or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Twenty-third—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance to public work of the City, and should the said railway in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Twenty-fourth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets and avenues, the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Twenty-fifth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amount paid by the Company for damages to persons or property on account of construction and operation.
18. Total expenses for operation, including salaries.

—and such other information in regard to the business of the Company as may be required by the Board.

Twenty-sixth—The Company shall at all times keep accurate books of account of the gross receipts from all sources within the limits of the City, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross receipts, the total miles in operation within the limits of the City, and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Twenty-seventh—In case of any violation or breach or failure to comply with any of the provisions herein contained, or with any orders of the Board acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-eighth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company, specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid, shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Twenty-ninth—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Thirtieth—This grant is upon the express condition that any and all sums of money or any and all securities heretofore deposited with the Comptroller by the Company under and pursuant to franchises heretofore granted to it by the City as a fund for the security for the performance by the Company of the terms and conditions of the franchises so granted, shall likewise be a fund for the security for the performance by the Company of all the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, the quality of construction of the railway and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions, or compliance with such orders, or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof, after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or, after default in the payment of the annual charges, shall collect the same, with interest, from the said fund, after ten (10) days' notice to the Company; or, in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder, relating to the headway, heating and lighting of cars, fenders, wheelguards and watering of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheelguards, in case of a violation of the provisions relating to those matters, all of which sums may be deducted from said fund.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its President, or other officer to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing appears in the judgment of the Board to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice, pay to the City a sum sufficient to restore said security fund to the original amount, and in default thereof, this contract shall be canceled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Thirty-first—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-second—The words "streets or avenues" and "streets and avenues," wherever used in this contract shall be deemeed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title, or over which the public has an easement," encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railway.

Thirty-third—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned, shall be transferred by law to any other Board, authority, officer or officers, then and in such case such other Board, authority, officer or officers shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the Laws of the State of New York.

Sec. 4. This grant is also upon the further and express condition that the provisions of article 5 and other provisions of the Railroad Law, pertinent thereto, shall be strictly complied with by the Company.

Sec. 5. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms and conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed the day and year first above written.

THE CITY OF NEW YORK,

[CORPORATE SEAL.] By......................................, Mayor.

Attest: ...., City Clerk.

NEW YORK CITY INTERBOROUGH RAILWAY COMPANY,

[SEAL.] By......................................, President.

Attest: ...., Secretary.

(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates, fares and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of a franchise or right applied for by the New York City Interborough Railway Company, and the said form of proposed contract for the grant of such franchise or right containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Thursday, September 21, 1911, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to Thursday, September 21, 1911, in two (2) daily newspapers to be designated by the Mayor therefor, and published in The City of New York, at the expense of the New York City Interborough Railway Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of the franchise or right applied for by the New York City Interborough Railway Company, and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right and before adopting any resolution authorizing any such contract, will, at a meeting of said Board, to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, September 21, 1911, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following was offered

Whereas, The New York City Interborough Railway Company has, under date of March 31, 1911, made application to this Board for the grant of the right, privilege and franchise to construct, maintain and operate a double track street surface railway as an extension to its existing system upon and along East 149th street, from St. Anns avenue to the Southern boulevard, and upon and along the Southern boulevard, from East 149th street to Leggett avenue, Borough of The Bronx: and

Whereas, Section 172 of the Railroad Law and sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on April 6, 1911, fixing the date for public hearing thereon as April 27, 1911, at which citizens were entitled to appear and be heard, and publication was had for at least fourteen (14) days in the "Morning Telegraph" and "New York Sun" newspapers designated by the Mayor, and in the City Record for ten (10) days immediately prior to the date of hearing, and the public hearing was duly had on such day; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for, and proposed to be granted to The New York City Interborough Railway Company and the adequacy of the compensation proposed to be paid therefor; now, therefore, it is

Resolved, That the following form of resolution for the grant of the franchise or right applied for by the New York City Interborough Railway Company, containing the form of proposed contract for the grant of such franchise or right, be hereby introduced and entered in the minutes of this Board as follows, to wit:

Resolved, That the Board of Estimate and Apportionment hereby grants to the New York City Interborough Railway Company the franchise or right fully set out and described in the following form of proposed contract for the grant thereof, embodying all of the terms and conditions, including the provisions as to rates, fares and charges, upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of The City of New York be and he hereby is authorized to execute and deliver such contract, in the name and on behalf of The City of New York, as follows, to wit:

Proposed Form of Contract.

This contract, made this .... day of .... 1911, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the New York City Interborough Railway Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate a double track extension to its street surface railway, with the necessary wires and equipment for the purpose of conveying passengers only, in the Borough of The Bronx, in The City of New York, upon the following route, to wit:

Beginning on East 149th street at its intersection with St. Anns avenue and there connecting with the road for which the Company has a franchise in East 149th street; thence easterly in and upon East 149th street to the Southern boulevard; thence northeasterly in and upon the Southern boulevard to Leggett avenue and there connecting with the road for which the Company has a franchise in Leggett avenue; and to cross such other streets and avenues, named and unnamed, as may be encountered in said route. Provided, however, that nothing in this contract shall be construed as permitting more than a double track in any portion of Southern boulevard.

The said route with turnouts, switches and crossovers hereby authorized is shown upon a map entitled:

> "Map showing proposed extensions of the New York City Interborough Railway Company in the Boroughs of Manhattan and The Bronx, City of New York, to accompany petition dated March 31, 1911, to the Board of Estimate and Apportionment,"

—and signed by Edward A. Maher, President, and A. E. Kalbach, Engineer, a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description, and the other provisions of this contract may be permitted by resolution of the Board.

Section 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within three (3) months from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the

Company shall, within said three (3) months, or within one (1) month thereafter make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company from the date upon which this contract is signed by the Mayor until March 31, 1928, with the privilege of renewal of said contract for the further period of twenty-five (25) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding twenty-five (25) years shall be reasonable, and either the City (by the Board) or the Company shall be bound upon request of the other to enter into a written agreement with each other fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of the original term of this contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate therefore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—The Company shall pay to the City for the privilege hereby granted, the following sums of money

(a) The sum of one thousand dollars ($1,000) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years an annual sum which shall in no case be less than five hundred and fifty dollars ($550), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of five hundred and fifty dollars $550).

During the second term of five (5) years an annual sum which shall in no case be less than one thousand dollars ($1,000), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand dollars ($1,000.)

During the third term of five (5) years an annual sum which shall in no case be less than one thousand one hundred dollars ($1,100), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand one hundred dollars ($1,100).

During the remaining term expiring March 31, 1928, an annual sum which shall in no case be less than one thousand two hundred dollars ($1,200), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand two hundred dollars ($1,200.)

The gross annual receipts mentioned above shall be that portion of the gross receipts of the Company as shall bear the same proportion to its whole gross receipts as the length of the extension hereby authorized shall bear to the entire length of the railway of the Company in operation within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the Treasury of the City on November 1 of each year, and shall be for the amount due to September 30 next preceeding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City, pursuant to the Railroad Law, as amended.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City or resolution of the Board or any law of the State of New York.

Fourth—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract, and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemptions from liability to perform each and all of the conditions of this contract.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, over the route hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment or any structures used in connection therewith, in streets and avenues hereinbefore described shall be permitted by the Company, to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures, and additions and betterments thereto, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair, and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same, together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if, in the opinion of the Company, the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board and the Board may fix a percentage upon the cost to be paid to the Company, at a sum in excess of the legal rate of interest, if, in its opinion, such action is justified.

The Company shall not at any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of the railway which shall be constructed by the Company, pursuant to this contract.

Sixth—The Company covenants and agrees to abandon and relinquish and does hereby abandon and relinquish to the City all its rights and franchises to construct, maintain and operate a street surface railway upon the route beginning at the intersection of East 149th street with St. Anns avenue; thence northerly on and along St. Anns avenue to East 156th street; thence easterly on and along said East 156th street to its intersection with Leggett avenue or Craven street; thence southerly and easterly on and along Leggett avenue or Craven street to its intersection with Southern boulvard, all in the Borough of The Bronx, and the Company shall, within one year from the date on which this contract is signed by the Mayor, comply with the provisions of law in regard to the abandonment of said route so abandoned and relinquished, and shall remove therefrom any and all existing tracks of the Company within such time, and restore the pavement in the manner prescribed by the President of the Borough of The Bronx, otherwise this contract shall be void and of no effect. Provided, however, the Board may extend said period for a period or periods not exceeding in the aggregate six months.

Seventh—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company, or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any wise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Eighth—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed, pursuant to this contract, within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Ninth—The Company shall commence construction of the railway herein authorized within six (6) months from the date upon which the consents of the property owners are filed with the Board, or from the date of the order of the Appellate Division of the Supreme Court made pursuant to section 174 of the Railroad Law confirming the determination of the Commissioners appointed thereunder, that such railway ought to be constructed and shall complete the construction and place the same in full operation within twelve (12) months from the date of filing such consents or the date of such order, otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City, provided that the period for commencement and the period for completion and placing the railway in full operation may be extended by the Board, but the total extension of time for either of such periods shall not exceed in the aggregate six (6) months; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided further that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board the Company shall, in writing, consent that the Board either in its own name as a party, or in the name of the City as a party, may intervene in any such proceedings.

Tenth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Eleventh—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permits so issued such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures, in the streets and avenues, over which such officials have jurisdiction, and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Twelfth—Said railway may be operated by overhead electric power substantially similar to the overhead electric system now in use by street surface railways in the Borough of The Bronx, or by any other motive power, except locomotive steam power or horse power, which may be approved by the Board, and consented to by the abutting property owners, in accordance with the provisions of law, and by the Public Service Commission for the First District of the State of New York.

Provided, however, that the Board, upon giving to the Company one (1) year's notice, may require the Company to operate its railway upon the whole or upon any portion of its route, by underground electric power substantially similar to the system now in use on the street surface railways in the Borough of Manhattan, or by any other practical motive power then in use which does not require the use of poles and overhead wires in the streets and avenues, and thereupon to discontinue the use of the overhead trolley system, and to remove its poles, wires and other structures used by it for that purpose from the streets and avenues of the City.

Thirteenth—Upon six (6) months' notice by the Board to the Company, all wires for the transmission of power, except trolley wires, for the operation of the railway, upon all or any portion of the route hereby authorized, shall be placed in conduits beneath or alongside of the railway. The Company shall provide in such conduits two (2) ducts not less than three (3) inches in diameter for the exclusive use of the City. Such ducts shall be used only by the Company for the operation of its railway and by the City as above.

Fourteenth—The rate of fare for any passenger upon said railway shall not exceed five (5) cents, and the Company shall not charge any passenger more than five (5) cents for one continuous ride from any point on its road or on any road, line or branch operated by it or under its control to any other point thereof, or any connecting branch thereof within the limits of the City.

The Company shall carry free upon the railway hereby authorized during the term of this contract all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Fifteenth—No cars shall be operated upon the railway hereby authorized, other than passenger cars and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway.

Sixteenth—The Company shall attach to each car run over the said railway proper fenders and wheel guards, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Seventeenth—All cars which are operated on said railway shall be heated during the cold weather, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Eighteenth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Nineteenth—Cars on the said railway shall run at intervals of not more than thirty (30) minutes both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board.

Twentieth—The Company, so long as it shall continue to use any of the tracks upon the streets and avenues in which said railway shall be constructed, shall cause to be watered at least three (3) times every twenty-four (24) hours when the temperature is above thirty-five (35) degrees Fahrenheit, the entire width of the streets and avenues, except when the width of such streets and avenues shall exceed sixty (60) feet between curblines, in which case the Company shall cause to be watered only sixty (60) feet in width of such roadway, and the Company shall provide for such purpose at least one tank car, the capacity of which shall be sufficient to water such streets and avenues in a satisfactory manner.

Twenty-first—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails, on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Twenty-second—As long as said railway, or any portion thereof, remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. In case of the neglect of the Company to make pavement or repairs after the expiration of thirty (30) days' notice to do so from the President of the Borough of The Bronx, said President may make the same at the expense of the Company. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City officials, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

Twenty-third—Any alteration to the sewerage or drainage systems or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Twenty-fourth—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance of public work of the City, and should the said railway in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Twenty-fifth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets and avenues, the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Twenty-sixth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amounts paid by the Company for damage to persons or property on account of construction and operation.

18. Total expenses for operation, including salaries.
—and such other information in regard to the business of the Company as may be required by the Board.

Twenty-seventh—The Company shall at all times keep accurate books of account of the gross receipts from all sources within the limits of the City, and shall, on or before November 1, of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross receipts, the total miles in operation within the limits of the City and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Twenty-eighth—In case of any violation or breach or failure to comply with any of the provisions herein contained, or with any orders of the Board acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-ninth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice the Board as aforesaid shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs. with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Thirtieth—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Thirty-first—This grant is upon the express condition that any and all sums of money or any and all securities heretofore deposited with the Comptroller by the Company under and pursuant to franchises heretofore granted to it by the City as a fund for the security for the performance by the Company of the terms and conditions of the franchise so granted, shall likewise be a fund for the security for the faithful performance by the Company of all the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, the quality of construction of the railway and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions, or compliance with such orders, or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof, after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice to the Company, or, in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder, relating to the headway, heating and lighting of cars, fenders, wheel guards and watering of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation. and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheel guards, in case of a violation of the provisions relating to these matters, all of which sums may be deducted from such fund.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its President or other officer to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing appears in the judgment of the Board to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice, pay to the City a sum sufficient to restore said security fund to the original amount, and in default thereof this contract shall be canceled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Thirty-second—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-third—The words "streets or avenues" and "streets and avenues" wherever used in this contract shall be deemed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title, or over which the public has an easement," encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railway.

Thirty-fourth—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers, shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Section 3. The grant of this privilege to the Company is likewise subject to the following conditions:

This contract shall not become operative until the Company shall procure and cause to be executed and approved in proper form for record and duly delivered to the Board of Estimate and Apportionment:

First—An agreement with The Southern Boulevard Railroad Company, wherein said Company shall agree to permit the use of its tracks on Southern boulevard, between East 149th street and Leggett avenue, by the Company, its successors or assigns, the City, or any other company to which the City may, after the termination of this contract, grant or lease rights, and the compensation for such use shall not exceed the terms provided by section 2, Fifth, of this contract;

Upon the failure of the said Southern Boulevard Railroad Company for any reason at any time hereafter to permit the use of its tracks on Southern boulevard, between East 149th street and Leggett avenue, by the Company, its successors or assigns, the City, or any other company to which the City may, after the termination of this contract, grant or lease rights, the rights hereby granted shall cease and determine.

Second—An agreement wherein the Union Railway Company of New York City, The Southern Boulevard Railroad Company and the Company shall each agree between themselves and with the City that a passenger paying a single fare upon a car on the east or west lines of any of said companies shall receive, without further payment, a ride north or south on any line of the other companies, and a passenger paying a single fare upon a car on a north or south line of any of said companies shall receive a ride east or west on any line of the other companies without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line, without further payments. Upon the failure of the said three companies or any of them to furnish such a continuous ride for one fare over their routes, or over any part of their routes, as herein provided, at any time during the term of this grant or any renewal or renewals thereof, the rights hereby granted shall thereupon cease and determine.

Section 4. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the Laws of the State of New York.

Section 5. This grant is also upon the further and express condition that the provisions of article 5 and other provisions of the Railroad Law, pertinent hereto, shall be strictly complied with by the Company.

Section 6. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,

By ...., Mayor.

[CORPORATE SEAL.]

Attest: ...., City Clerk.

NEW YORK CITY INTERBOROUGH RAILWAY COMPANY,

By ...., President.

[SEAL.]

Attest: ...., Secretary.

(Here add acknowledgments.)

Agreement, made this .... day of ...., 1911, between The Southern Boulevard Railroad Company (hereinafter called Boulevard Company), party of the first part, New York City Interborough Railroad Company (hereinafter called Interborough Company), party of the second part, and The City of New York (hereinafter called the City), party of the third part.

Whereas, The Interborough Company on March 31, 1911, applied to the Board of Estimate and Apportionment as the local authority of said City for the right to construct, maintain and operate four extensions to its street surface railway in the Boroughs of Manhattan and The Bronx; and

Whereas, On ...., 1911, a resolution granting the right to construct, maintain and operate one of such extensions, to wit: On East 149th street, from St. Anns avenue to Southern boulevard; thence on Southern boulevard to Leggett avenue, in the Borough of The Bronx, and authorizing the Mayor to deliver the contract for said right in the name and on behalf of The City of New York, was approved by the Mayor; and

Whereas, Said contract provides that the Interborough Company shall procure and cause to be executed an agreement wherein said Boulevard Company shall agree to permt the use of its tracks on the route beginning at the intersection of Southern boulevard with East 149th street; thence northeasterly in and upon Southern boulevard to the intersection of Southern boulevard with Leggett avenue in the Borough of The Bronx by the Interborough Company, its successors or assigns, the City or any other company to which the City may after the termination of this grant, grant or lease rights, and the compensation for such use shall not exceed that provided in section 2, subdivision Fifth, of the said contract.

Now, therefore, in consideration of the premises and of the sum of one dollar by each of the parties of the first and second parts to the other paid, the receipt whereof is hereby acknowledged, the parties of the first and second parts do hereby covenant and agree with each other and with the party of the third part that the Interborugh Company may construct and operate its railroad upon Southern boulevard on the route beginning at the intersection of Southern boulevard with East 149th street; thence northeasterly in and upon Southern boulevard to the intersection of Southern boulevard with Leggett avenue, in the Borough of The Bronx, and enjoy with the said Boulevard Company a right in common to the use of the route and tracks of said Boulevard Company upon the said route, and the Boulevard Company further covenants and agrees to permit the use of its tracks by the Interborough Company, its successors or assigns, the City or any other company to which the City may after the termination of this grant, grant or lease any rights on said route, and that the compensation for such use shall not exceed that provided in section 2, subdivision Fifth, of the said contract.

In witness whereof, the Boulevard Company and the Interborough Company, by their officers thereunto duly authorized, have caused their corporate names to be hereunto signed and their corporate seals to be hereunto affixed the day and year first above written.

THE SOUTHERN BOULEVARD RAILROAD COMPANY,

By ...., President.

[SEAL.]

Attest: ...., Secretary.

NEW YORK CITY INTERBOROUGH COMPANY,

By ...., President.

[SEAL.]

Attest: ...., Secretary.

(Here add acknowledgments.)

Agreement, made this .... day of ...., 1911, between The Union Railway Company of New York City (hereinafter called Union Company), party of the first part, The Southern Boulevard Railroad Company (hereinafter called Boulevard Company), party of the second part, New York City Interborough Railway Company (hereinafter called Interborough Company), party of the third part, and The City of New York (hereinafter called the City), party of the fourth part.

Whereas, The Interborough Company, on March 31, 1911, applied to the Board of Estimate and Apportionment as the local authority of said City for the right to construct, maintain and operate four extensions to its street surface railway, in the Boroughs of Manhattan and The Bronx; and

Whereas, On ...., 1911, resolutions granting the right to construct, maintain and operate two of such extensions and authorizing the Mayor to execute and deliver the contracts for said rights in the name and on behalf of The City of New York, were approved by the Mayor; and

Whereas, Said contracts each provide that the same shall not become operative until the Interborough Company shall procure and cause to be executed and approved in proper form for record and duly delivered to the Board, an agreement wherein the Union Railway Company of New York City, The Southern Boulevard Railroad Company and the Company shall each agree between themselves and with the City that a passenger paying a single fare upon a car on the east or west lines of any of said companies shall receive, without further payment, a ride north or south on any line of the other companies, and a passenger paying a single fare upon a car on a north or south line of any of said companies shall receive a ride east or west on any line of the other companies without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line without further payments.

Now, therefore, in consideration of the premises and of the sum of one dollar by each of the parties of the first, second and third parts to the others paid, the receipt whereof is hereby acknowledged, the parties of the first, second and third parts do each hereby covenant and agree with each other and with the party of the fourth part that a passenger paying a single fare upon a car on the east or west lines of any of said companies shall receive, without further payment, a ride north or south on any line of the other companies, and a passenger paying a single fare upon a car on a north and south line of any of said companies shall receive a ride east or west on any line of the other companies, without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line without further payments.

In witness whereof, The Union Company, Boulevard Company and Interborough Company, by their officers thereunto duly authorized, have caused their corporate names to be hereunto signed and their corporate seals to be hereunto affixed the day and year first above written.

UNION RAILWAY COMPANY OF NEW YORK CITY,

By ...., President.

[SEAL.]

Attest: ...., Secretary.

THE SOUTHERN BOULEVARD RAILROAD COMPANY,

By ...., President.

[SEAL.]

Attest: ...., Secretary.

NEW YORK CITY INTERBOROUGH RAILWAY COMPANY,

By ...., President.

[SEAL.]

Attest: ...., Secretary.

(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates, fares and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of a franchise or right applied for by The New York City Interborough Railway Company, and the said form of proposed contract for the grant of such franchise or right, containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Thursday, September 21, 1911, in the CITY RECORD, and at least twice during the ten (10) days immediately prior to Thursday, September 21, 1911, in two (2) daily newspapers to be designated by the Mayor therefor and published in the City of New York, at the expense of The New York City Interborough Railway Company, together with the following notice, to wit:

Notice is hereby given that the Board of Estimate and Apportionment before authorizing any contract for the grant of the franchise or right applied for by The New York City Interborough Railway Company, and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract, will, at a meeting of said Board, to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, September 21, 1911, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following was offered:

Whereas, The New York City Interborough Railway Company has under date of March 31, 1911, made application to this Board for the grant of the right, privilege and franchise to construct, maintain and operate a double track street surface railway as an extension to its existing system upon and along Dongan street, Stebbins avenue, East 163d street, Washington avenue and Elton avenue, from Intervale avenue to East 161st street, Borough of The Bronx; and

Whereas, Section 172 of the Railroad Law and Sections 72, 73 and 74 of the Greater New York Charter, as amended by chapters 629 and 630 of the Laws of 1905, provide for the manner and procedure of making such grants; and

Whereas, In pursuance of such laws, this Board adopted a resolution on April 6, 1911, fixing the date for public hearing thereon as April 27, 1911, at which citizens were entitled to appear and be heard, and publication was had for at least fourteen (14) days in the "Morning Telegraph" and "New York Sun," newspapers designated by the Mayor, and in the CITY RECORD, for ten (10) days immediately prior to the date of hearing, and the public hearing was duly had on such day; and

Whereas, This Board has made inquiry as to the money value of the franchise or right applied for, and proposed to be granted to the New York City Interborough Railway Company and the adequacy of the compensation proposed to be paid therefor; now, therefore, it is

Resolved, That the following form of the resolution for the grant of the franchise or right applied for by the New York City Interborough Railway Company, containing the form of proposed contract for the grant of such franchise or right, be hereby introduced, and entered in the minutes of this Board, as follows, to wit:

"Resolved, That the Board of Estimate and Apportionment hereby grants to the New York City Interborough Railway Company the franchise or right fully set out and described in the following form of proposed contract for the grant thereof, embodying all of the terms and conditions, including the provisions as to rates, fares and charges upon and subject to the terms and conditions in said proposed form of contract contained, and that the Mayor of the City of New York be and he hereby is authorized to execute and deliver such contract in the name and on behalf of the City of New York, as follows, to wit:

Proposed Form of Contract.

This contract, made this day of , 1911, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the New York City Interborough Railway Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate a double track extension to its street surface railway, with the necessary wires and equipment, for the purpose of conveying passengers only, in the Borough of The Bronx, in The City of New York, upon the following route, to wit:

Beginning on Dongan street at its intersection with Intervale avenue, and there connecting with the road for which the Company has a franchise; thence westerly in and upon Dongan street to Stebbins avenue; thence northerly in and upon Stebbins avenue to East 163d street; thence westerly in and upon East 163d street to Washington avenue; thence southwesterly in and upon Washington avenue to Elton avenue; thence southwesterly in and upon Elton avenue to East 163d street, and there connecting with the existing tracks of the Union Railway Company of New York City in East 161st street.

And to cross such other streets and avenues, named and unnamed, as may be encountered in said route.

The said route with turnouts, switches and crossovers hereby authorized is shown upon a map entitled:

> "Map showing proposed extensions of The New York City Interborough Railway Company in the Boroughs of Manhattan and The Bronx, City of New York, to accompany petition dated March 31, 1911, to the Board of Estimate and Apportionment,"

—and signed by Edward A. Maher, President, and A. E. Kalbach, Engineer; a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof and is to be substantially followed, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description, and the other provisions of this contract, may be permitted by resolution of the Board.

Section 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within three (3) months from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the Company shall, within said three (3) months, or within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company from the date upon which this contract is signed by the Mayor until March 31, 1928, with the privilege of renewal of said contract for a further period of twenty-five (25) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal, it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding twenty-five (25) years shall be reasonable, and either the City (by the Board) or the Company shall be bound upon request of the other to enter into a written agreement with each other fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of the original term of this contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—The Company shall pay to the City for the privilege hereby granted, the following sums of money:

(a) The sum of one thousaund five hundred dollars ($1,500) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years an annual sum which shall in no case be less than six hundred and fifty dollars ($650), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of six hundred and fifty dollars ($650).

During the third term of five (5) years an annual sum which shall in no case be less than one thousanud two hundred dollars ($1,200), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand two hundred dollars ($1,200).

During the third term of five (5) years an annual sum which shall in no case be less than one thousand three hundred dollars ($1,300), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand three hundred dollars ($1,300).

During the remaining term, expiring March 31, 1928, an annual sum which shall in no case be less than one thousand four hundred dollars ($1,400), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of one thousand four hundred dollars ($1,400).

The gross annual receipts mentioned above shall be that portion of the gross receipts of the Company as shall bear the same proportion to its whole gross receipts as the length of the extension hereby authorized shall bear to the entire length of the railway of the Company in operation within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the Treasury of the City on November 1 of each year and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City, pursuant to the Railroad Law, as amended.

Any and all payments to be made by the terms of this contract to the City by the Company, shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Fourth—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, over the route hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment or any structures used in connection therewith, in streets and avenues hereinbefore described, shall be permitted by the Company, to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures, and additions and betterments thereto, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair, and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear the number of cars operated by the companies then using the same, together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if, in the opinion of the Company, the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board and the Board may fix a percentage upon the cost to be paid to the Company, at a sum in excess of the legal rate of interest, if, in its opinion, such action is justified.

The Company shall not at any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of the railway which shall be constructed by the Company pursuant to this contract.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in anywise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Seventh—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Eighth—The Company shall commence construction of the railway herein authorized within six (6) months from the date upon which the consents of the property owners are filed with the Board, or from the date of the order of the Appellate Division of the Supreme Court, made pursuant to section 174 of the Railroad Law, confirming the determination of the Commissioners appointed thereunder that such railway ought to be constructed, and shall complete the construction and place the same in full operation within twelve (12) months from the date of filing such consents or the date of such order; otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City, provided that the period for commencement and the period for completion and placing the railway in full operation may be extended by the Board, but the total extension of time for either of such periods shall not exceed in the aggregate six (6) months; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided, further, that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board, the Company shall, in writing, consent that the Board either in its own name as a party or in the name of the City as a party may intervene in any such proceedings.

Ninth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Tenth—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permits so issued, such officials may also impose such conditions, as a condition of the granting of the same, as are necessary for the purpose of protecting any structures in the streets and avenues over which such officials have jurisdiction, and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Eleventh—Said railway may be operated by overhead electric power, substantially similar to the overhead electric system now in use by street surface railways in the Borough of The Bronx, or by any other motive power, except locomotive steam power or horse power, which may be approved by the Board, and consented to by the abutting property owners, in accordance with the provisions of law, and by the Public Service Commission for the First District of the State of New York. Provided, however, that the Board, upon giving to the Company one (1) year's notice, may require the Company to operate such railway upon the whole or upon any portion of its route, by underground electric power, substantially similar to the system now in use on the street surface railways in the Borough of Manhattan, or by any other practical motive power, then in use which does not require the use of poles and overhead wires in the streets and avenues. and thereupon to discontinue the use of the overhead trolley system, and to remove its poles, wires and other structures used by it for that purpose from the streets and avenues of the City.

Twelfth—Upon six (6) months' notice by the Board to the Company, all wires for the transmission of power, except trolley wires, for the operation of the railway, upon all or any portion of the route hereby authorized, shall be placed in conduits beneath or alongside of the railway. The Company shall provide in such conduits two (2) ducts not less than three (3) inches in diameter for the exclusive use of the City. Such ducts shall be used only by the Company for the operation of its railway and by the City, as above.

Thirteenth—The rate of fare for any passenger upon said railway shall not exceed five (5) cents and the Company shall not charge any passenger more than five (5) cents for one continuous ride from any point on its road or on any road, line or branch operated by it or under its control, to any other point thereof, or any connecting branch thereof within the limits of the City.

The Company shall carry free upon the railway hereby authorized, during the term of this contract, all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Fourteenth—No cars shall be operated upon the railway hereby authorized, other than passenger cars and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway.

Fifteenth—The Company shall attach to each car run over the said railroad, proper fenders and wheelguards, in conformity with such laws and ordinances as are now in force, or may hereafter during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Sixteenth—All cars which are operated on said railway shall be heated during the cold weather, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Seventeenth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Eighteenth—Cars on said railway shall run at intervals of not more than thirty (30) minutes both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board. Provided, however, that the Company shall not be required to operate its cars between the hours of 1 o'clock a. m. and 5 o'clock a. m., each day, unless the Board shall determine after a hearing had thereon that public convenience requires the operation of cars during said hours.

Nineteenth—The Company, so long as it shall continue to use any of the tracks upon the streets and avenues in which said railway shall be constructed, shall cause to be watered at least three (3) times every twenty-four (24) hours when the temperature is above thirty-five (35) degrees Fahrenheit, the entire width of the streets and avenues, except when the width of such streets aund avenues shall exceed sixty (60) feet between curblines, in which case the Company shall cause to be watered only sixty (60) feet in width of such roadway, and the Company shall provide for such purpose at least one tank car, the capacity of which shall be sufficient to water such streets and avenues in a satisfactory manner.

Twentieth—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails, on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Twenty-first—As long as said railway, or any portion thereof, remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. In case of the neglect of the Company to make pavement or repairs after the expiration of thirty (30) days' notice to do so from the President of the Borough of The Bronx, said President may make the same at the expense of the Company. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City official, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

Twenty-second—Any alteration to the sewerage or drainage systems, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Twenty-third—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance to public work of the City, and should the said railway in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Twenty-fourth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets and avenues, the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Twenty-fifth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the company by last report.
14. Location, value and amount paid for real estate now owned by the company.
15. Number of passengers carried during the year.
16. Total receipts of company for each class of business.
17. Amounts paid by the company for damage to persons or property on account of construction and operation.
18. Total expense for operation, including salaries.

—and such other information in regard to the business of the Company as may be required by the Board.

Twenty-sixth—The Company shall at all times keep accurate books of account of the gross receipts from all sources within the limits of the City, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company, for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross receipts, the total miles in operation within the limits of the City and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Twenty-seventh—In case of any violation or breach or failure to comply with any of the provisions herein contained, or with any orders of the Board acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-eighth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company, specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Twenty-ninth—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Thirtieth—This grant is upon the express condition that any and all sums of money or any and all securities heretofore deposited with the Comptroller by the Company under and pursuant to franchises heretofore granted to it by the City as a fund for the security for the performance by the Company of the terms and conditions of the franchise so granted, shall likewise be a fund for the security for the faithful performance by the Company of all the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, the quality of construction of the railway and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions, or compliance with such orders, or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof, after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or, after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice to the Company, or, in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder, relating to the headway, heating and lighting of cars, fenders, wheelguards and watering of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation, and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheelguards, in case of a violation of the provisions relating to those matters, all of which sums may be deducted from such fund.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its President, or other officer, to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or after a hearing, appears in the judgment of the Board to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice, pay to the City a sum sufficient to restore said security fund to the original amount, and in default thereof this contract shall be cancelled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Thirty-first—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-second—The words "streets or avenues" and "streets and avenues," wherever used in this contract, shall be deemed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title or over which the public has an easement" encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railway.

Thirty-third—If at any time the powers of the Board or any other of the authorities herein mentioned, or intended to be mentioned, shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers, shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Section 3. The grant of this privilege to the Company is likewise subject to the following condition:

This contract shall not become operative until the Company shall procure and cause to be executed and approved in proper form for record and duly delivered to the Board, an agreement wherein the Union Railway Company of New York City, The Southern Boulevard Railroad Company and the Company shall each agree between themselves and with the City that a passenger paying a single fare upon a car on the east or west lines of any of said companies shall receive, without further payment, a ride north or south on any line of the other companies, and a passenger paying a single fare upon a car on a north or south line of any of said companies shall receive a ride east or west on any line of the other companies without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line, without further payments. Upon the failure of the said three companies or any of them to furnish such a continuous ride for one fare over their routes, or over any part of their routes, as herein provided, at any time during the term of this grant or any renewal or renewals thereof, the rights hereby granted shall thereupon cease and determine.

Section 4. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the laws of the State of New York.

Section 5. This grant is also upon the further and express condition that the provisions of article 5, and other provisions of the Railroad Law pertinent hereto, shall be strictly complied with by the Company.

Section 6. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed aund contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK.

By .... Mayor.

[CORPORATE SEAL.]

Attest: ...., City Clerk.

NEW YORK CITY INTERBOROUGH RAILWAY COMPANY,

By .... President.

[SEAL.]

Attest: .... Secretary.

(Here add acknowledgments.)

Agreement, made this day of , 1911, between the Union Railway Company of New York City (hereinafter called Union Company), party of the first part, The Southern Boulevard Railroad Company (hereinafter called Boulevard Company), party of the second part, New York City Interborough Railway Company (hereinafter called Interborough Company), party of the third part, and The City of New York (hereinafter called the City), party of the fourth part.

Whereas, The Interborough Company, on March 31, 1911, applied to the Board of Estimate and Apportionment as the local authority of said City for the right to construct, maintain and operate four extensions to its street surface railway, in the Boroughs of Manhattan and The Bronx; and

Whereas, On , 1911, resolutions granting the right to construct, maintain and operate two of such extensions and authorizing the Mayor to execute and deliver the contracts for said rights in the name and on behalf of the City of New York, were approved by the Mayor; and

Whereas, Said contracts each provide that the same shall not become operative until the Interborough Company shall procure and cause to be executed and approved in proper form for record and duly delivered to the Board, an agreement wherein the Union Railway Company of New York City, the Southern Boulevard Railroad Company and the Company shall each agree between themselves and with the City that a passenger paying a single fare upon a car on the east or west lines of any of said companies shall receive, without further payment, a ride north or south on any line of the other companies, and a passenger paying a single fare upon a car on a north or south line of any of said companies shall receive a ride east or west on any line of the other companies without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line without further payments.

Now, therefore, in consideration of the premises and of the sum of one dollar by each of the parties of the first, second and third parts to the others paid, the receipt whereof is hereby acknowledged, the parties of the first, second and third parts do each hereby covenant and agree with each other and with the party of the fourth part that a passenger paying a single fare upon a car on the east or west lines of any of said companies shall receive, without further payment, a ride north or south on any line of the other companies, and a passenger paying a single fare upon a car on a north and south line of any of said companies shall receive a ride east or west on any line of the other companies, without further payment at points of intersection, and that a passenger may continue in the direction in which his fare was first paid on any other line without further payments.

In witness whereof, The Union Company, Boulevard Company and Interborough Company, by their officers thereunto duly authorized, have caused their corporate names to be hereunto signed and their corporate seals to be hereunto affixed the day and year first above written.

UNION RAILWAY COMPANY OF NEW YORK CITY,

By .... President.

[SEAL.]

Attest: .... Secretary.

THE SOUTHERN BOULEVARD RAILROAD COMPANY,

By .... President.

[SEAL.]

Attest: .... Secretary.

NEW YORK CITY INTERBOROUGH RAILWAY COMPANY,

By .... President.

[SEAL.]

Attest: .... Secretary.

(Here add acknowledgments.)

Resolved, That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provisions as to rates, fares and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved, That these preambles and resolutions, including the said resolution for the grant of a franchise or right applied for by the New York City Interborough Railway Company, and the said form of a proposed contract for the grant of such franchise or right containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Thursday, September 21, 1911, in the City Record, and at least twice during the ten (10) days immediately prior to Thursday, September 21, 1911, in two (2) daily newspapers to be designated by the Mayor therefor, and published in The City of New York at the expense of the New York City Interborough Railway Company, together with the following notice, to wit:

"Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of the franchise or right applied for by the New York City Interborough Railway Company, and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract, will, at a meeting of said Board, to be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on Thursday, September 21, 1911, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmound—16.

Jay Street Connecting Railroad.

In the matter of the franchise granted to the Jay Street Connecting Railroad to construct, maintain and operate railroad tracks in the vicinity of Jay, John, Pearl and Plymouth streets, Borough of Brooklyn.

A communication was received from the Mayor's office returning the contract duly executed by his Honor the Mayor and the City Clerk.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, June 30, 1911.

Hon. William J. Gaynor, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—By resolution adopted by the Board of Estimate and Apportionment June 8, 1911, approved by the Mayor June 9, 1911, the Jay Street Connecting Railroad was granted a franchise to construct, maintain and operate certain railroad tracks in the vicinity of Jay, John, Pearl and Plymouth streets, Borough of Brooklyn.

The contract as authorized by such resolution was executed by the President and Secretary of the Railroad Company, June 21, 1911, and by the Mayor and City Clerk June 29, 1911, and bears the latter date.

The Departments interested have been advised of the execution of the contract; the original has been filed in this office, and the duplicate original delivered to the company.

The grant is now in full force and effect. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

Which was ordered filed.

New York Magnaphone and Music Company.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 29, 1911.

Hon. William J. Gaynor, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Under date of June 29, 1911, the New York Magnaphone and Music Company by its Vice-President, Mr. Charles A. Benton, petitioned the Board for the authority to lay, construct, maintain and operate electric wires with the necessary branches and connections thereto, under and along the streets, avenues and public places within the territory of New York, for the purpose of distributing music and matters of general interest and amusement electrically by means of a magnaphone.

This Company was incorporated pursuant to Article IX of the Transportation Corporations Law by filing its certificate with the Secretary of State on June 20, 1911.

In a letter from the attorneys of the Company accompanying the petition and of even date therewith, it is requested that the Board set a date for a public hearing upon the application in accordance with the provisions of the Charter.

It is, therefore, suggested that the Board adopt a resolution fixing September 21, 1911, as the date for such public hearing and requesting the Mayor to designate the newspapers in which to publish the notice of such hearing pursuant to law.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

110 West 34th Street, New York City, June 29, 1911.

Board of Estimate and Apportionment of The City of New York:

Gentlemen—The New York Magnaphone and Music Company hereby makes application for the authority to lay, construct, maintain and operate electric wires with the necessary branches in connection thereto under and along the streets, avenues and public places within the territory of The City of New York, according to the terms and conditions which your Honorable Body may determine, such wires to be laid and maintained for the purpose of distributing music and matters of general interest and amusement electrically by means of a magnaphone.

The Company, therefore, respectfully applies for the consent of your Honorable Board to lay, construct, maintain and operate such wires for the purposes aforesaid and requests that such consent or franchise be embodied in a contract in accordance with the provisions of the Greater New York Charter.

Respectfully submitted,

THE NEW YORK MAGNAPHONE AND MUSIC COMPANY,
[Corporate Seal.] By Charles A. Benton, Vice-President.

State of New York, County of New York, ss.:

On the 29th day of June, in the year one thousand nine hundred and eleven, before me personally came Charles A. Benton, to me known, who, being duly sworn, did depose and say that he resided in the Borough of Manhattan, City of New York; that he is the vice-president of the New York Magnaphone and Music Company, the corporation described in and which executed the foregoing instrument; that he knew the seal of said corporation; that the seal affixed to said instrument was such corporate seal; that it was so affixed by order of the board of directors of said corporation and that he signed his name thereto by like order.

KATHRYN A. FOX, Notary Public, New York County.

The following was offered:

Whereas, The foregoing petition from New York Magnaphone and Music Company, dated June 29, 1911, was presented to the Board of Estimate and Apportionment at a meeting held July 6, 1911,

Resolved, That in pursuance of law this Board sets Thursday, the 21st day of September, 1911, at 10.30 o'clock in the forenoon, and Room 16, in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered, and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard, and be it further

Resolved, That the Secretary is directed to cause such petition and these resolution to be published for at least two (2) days in two daily newspapers in The City of New York, to be designated by the Mayor, and for at least ten (10) days in the City Record immediately prior to such date of public hearing. The expense of such publication to be borne by the petitioner.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The petition was then referred to the Bureau of Franchises.

New York and North Shore Traction Company.

In the matter of the modification and amendment of the contract dated February 1, 1909, granting the New York and North Shore Traction Company a franchise to construct, maintain and operate a street surface railway upon and along various streets and avenues in the Borough of Queens.

A communication was received from the Mayor's office returning the contract duly executed by his Honor the Mayor and the City Clerk.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 30, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—By resolution adopted by the Board of Estimate and Apportionment April 27, 1911, approved by the Mayor April 28, 1911, the Mayor of The City of New York was authorized to execute and deliver a certain contract between the City and the New York and North Shore Traction Company, modifying contract dated February 1, 1909, granting a franchise to said company to construct, maintain and operate a street surface railway on various streets and avenues in the Borough of Queens, by eliminating from said contract a portion of the route as originally granted.

The contract as authorized by such resolution was executed by the president and secretary of the company June 16, 1911, and by the Mayor and City Clerk June 27, 1911, and bears the latter date.

The Departments interested have been advised of the execution of the contract; the original has been filed in this office, and the duplicate original delivered to the company.

The grant is now in full force and effect.

Respectfully, HARRY P. NICHOLS, Chief of Bureau.

Which was ordered filed.

Bronx Traction Company.

In the matter of the petition of the Bronx Traction Company for a franchise to construct, maintain and operate an extension to its existing street surface railway upon and along Eastern boulevard and the Shore road to Fort Schuyler road to the northerly boundary line of the City, Borough of The Bronx.

At the meeting of June 8, 1911, a report was received from the Bureau of Franchises stating the President of the Borough of The Bronx, and the Commissioner of Parks from said borough, both opposed the granting of the petition. It was therefore recommended the petition be denied, when action was deferrred until this day.

The matter was referred to the President of the Borough of The Bronx, at his request.

Union Railway Company of New York City.

A communication was received from the Mayor's office returning duly approved by his Honor the Mayor on June 27, 1911, resolution adopted by this Board June 22, 1911, authorizing the execution and delivery of a certain agreement, defining the intent and meaning of the compensation clauses as contained in contracts authorized by this Board granting franchises to said company for certain extensions to its existing system in the Boroughs of Manhattan and The Bronx.

Which was ordered filed.

Staten Island Rapid Transit Railway Company.

In the matter of the petition of the Staten Island Rapid Transit Railway Company for an extension of time of three years from October 29, 1911, within which to commence and complete construction of a railroad track upon and across Richmond terrace in the Third Ward, Borough of Richmond.

This petition was presented to the Board at the meeting of June 22, 1911, and referred to the Bureau of Franchises.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 29, 1911.

Hon. William J. Gaynor, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—The Staten Island Rapid Transit Railway Company by a petition verified June 13, 1911, has applied to the Board of Estimate and Apportionment for an extension of time of three years from October 29, 1911, within which to commence and complete the construction of a railroad track across and upon Richmond Terrace in the Third Ward of the Borough of Richmond. The petition was presented to the Board at its meeting of June 22, 1911, and referred to the Bureau of Franchises.

By contract dated October 29, 1909, the Company was granted permission to construct two tracks each across four designated streets and a single track across Richmond Terrace or Shore Road at a point approximately 550 feet east of the intersection of Richmond Terrace with Western avenue. All of these tracks have been constructed with the exception of the one crossing Richmond Terrace. The time for the completion of the construction of this track will expire October 29, 1911.

The contract further gave the Company permission to construct two tracks under South street near Jay street in the First Ward of the Borough of Richmond and provided that this construction should be commenced within three years and completed within five years from October 29, 1909.

The petition now before the Board requests that the date for the completion of construction of the track across Richmond Terrace be made co-terminous with those under South street.

It is recommended that the Board adopt a resolution fixing September 21, 1911, as the date for the preliminary public hearing upon the petition, and requesting the Mayor to designate newspapers in which the petition and notice of hearing shall be published pursuant to law.

A resolution to this effect is herewith transmitted.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The Staten Island Rapid Transit Railway Company, Office of the Vice-President, 17 State Street, New York, June 13, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The undersigned, the Staten Island Rapid Transit Railway Company, hereby petitions The City of New York for an extension of time from October 29, 1911, to October 29, 1914, within which to commence and complete the construction of one standard railroad track across and upon Richmond terrace, formerly known as the Shore road, in the Third Ward, Borough of Richmond, City of New York, at the point, in the manner and upon the terms and conditions specified in the contract between The City of New York and the Staten Island Rapid Transit Railway Company, dated October 29th, 1909, whereby, among other things, the right and privilege was granted to the undersigned to construct, maintain and operate such track, provided the construction thereof was commenced and completed within two years from the date thereof.

THE STATEN ISLAND RAPID TRANSIT RAILWAY COMPANY, by C. C. F. Bent, Vice-President.

State of New York, County of New York, ss.:

On this 13th day of June, 1911, before me personally came C. C. F. Bent, to me known and known to me to be the person described in and who signed the foregoing, and thereupon acknowledged to me that he signed the same for the purposes therein set forth.

R. N. STEVENS, Notary Public, Rockland County, N. Y. Certificate filed in New York County.

The following was offered:

Whereas, The foregoing petition from Staten Island Rapid Transit Railway Company, dated June 13, 1911, was presented to the Board of Estimate and Apportionment at a meeting held June 22, 1911,

Resolved, That in pursuance of law this Board sets Thursday, the 21st day of September, 1911, at 10.30 o'clock in the forenoon, and Room 16 in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered, and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard, and be it further

Resolved, That the Secretary is directed to cause such petition and these resolutions to be published for at least two (2) days in two daily newspapers in The City of New York, to be designated by the Mayor, and for at least ten (10) days in the CITY RECORD immediately prior to such date of public hearing. The expense of such publication to be borne by the petitioner.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Manhattan Bridge Service Company.

In the matter of the petition of the Manhattan Bridge Service Company for a franchise to construct, maintain and operate a street surface railway from the intersection of the Bowery and Canal street, Borough of Manhattan, upon and along Canal street to the Manhattan Bridge and upon and along and over said bridge and its approaches to Flatbush avenue and Fulton street, Borough of Brooklyn.

This application was presented to the Board at the meeting of May 25, 1911.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 29, 1911.

HON. WILLIAM J. GAYNOR, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—The Manhattan Bridge Service Company by a petition dated May 19, 1911, has applied to the Board of Estimate and Apportionment for the right or franchise to construct, maintain and operate a single or double track street surface railway from the intersection of the Bowery and Canal street, Borough of Manhattan, upon and along Canal street to the Manhattan Bridge, and upon, along and over said bridge and its approaches to the intersection of Flatbush avenue and Fulton street, Borough of Brooklyn. The petition was presented to the Board at its meeting of May 25, 1911, and referred to the Chief Engineer and Bureau of Franchises. Accompanying the petition is a communication from the President of the Company, suggesting certain terms and conditions to govern the grant.

The Company filed its certificate of incorporation in the office of the Secretary of State on May 15, 1911, and under date of June 12, 1911, applied to the Public Service Commission for the First District for a certificate of public convenience and a necessity under Section 9 of the Railroad Law.

It is recommended that the preliminary public hearing upon the petition of the Company be fixed for Thursday, September 21, 1911, and that the Mayor be requested to designate newspapers in which the petition and notice of hearing shall be published according to law.

A resolution for adoption in accordance with the foregoing recommendation is herewith transmitted. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

To the Honorable Board of Estimate and Apportionment of The City of New York:

The petition of the Manhattan Bridge Service Company respectfully shows:

First—That your petitioner is a street surface railroad corporation, duly organized and existing under the Laws of the State of New York, and proposes to construct and operate a line of street surface railroad in the Counties of New York and Kings, and across the Manhattan Bridge, connecting the Boroughs of Manhattan and Brooklyn, in the City of New York, State of New York.

Second—Your petitioner now desires to obtain from your Honorable Board, and hereby respectfully applies for, the necessary franchise or privilege to operate its cars over, upon and along the tracks now or hereafter constructed by the City of New York upon the Manhattan Bridge, the approaches thereto and the plazas thereof; and also to construct, maintain and operate a single or double track street surface railroad for public use in the conveyance of persons and property for compensation in, upon and along Flatbush avenue extension in the County of Kings between the Brooklyn plaza of the Manhattan Bridge and the intersection of said Flatbush avenue extension with Fulton street in the said County of Kings, crossing all avenues and streets intersecting said route; and also for the franchise or privilege to construct and maintain the necessary poles for the stringing of wires and other appurtenances necessary for the operation of said road.

Third—That said corporation proposes to operate said proposed railroad by such motive power as may be lawfully employed.

Wherefore, your petitioner prays that public notice hereof and of the time and place when and where this application will be first considered be given as required by law, and that the desired consent be granted in accordance with the provisions of the Greater New York Charter and the Railroad Law of the State of New York.

Dated, New York, May 19, 1911.

MANHATTAN BRIDGE SERVICE COMPANY, by HARLAN W. WHIPPLE, President.

Attest: [SEAL] HAROLD B. WEAVER, Secretary.

State of New York, County of New York, ss.:

Harlan W. Whipple, being duly sworn, deposes and says, that he is the President of the Manhattan Bridge Service Company, the petitioner named in the foregoing petition; that he has read the foregoing petition and knows the contents thereof; that the same is true of his knowledge, except as to the matters therein stated to be alleged on information and belief and that as to those matters he believes it to be true.

Sworn to before me this 19th day of May, 1911.

HARLAN W. WHIPPLE.

[SEAL] Edw. D. Hulman, Notary Public Westchester Co.

Certificate filed New York County. My commission expires March 30, 1912.

The following was offered:

Whereas, The foregoing petition from Manhattan Bridge Service Company dated May 19, 1911, was presented to the Board of Estimate and Apporionment at a meeting held July 6, 1911.

Resolved, That in pursuance of law this Board sets Thursday, the 21st day of September, 1911, at 10.30 o'clock in the forenoon, and Room 16 in the City Hall, Borough of Manhattan, as the time and place when and where such petition shall be first considered, and a public hearing be had thereon, at which citizens shall be entitled to appear and be heard, and be it further

Resolved, That the Secretary is directed to cause such petition and these resolutions to be published for at least fourteen (14) days in two daily newspapers in The City of New York, to be designated by the Mayor, and for at least ten (10) days in the CITY RECORD immediately prior to such date of public hearing. The expense of such publication to be borne by the petitioner.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Manhattan Bridge Three-cent Line.

In the matter of the petition of the Manhattan Bridge Three-cent Line for a franchise to construct, maintain and operate a street surface railway from the Flatbush avenue station of the Long Island Railroad Company, in the Borough of Brooklyn, upon and along various streets and avenues; upon, along and over the Manhattan Bridge and its approaches thereto to the Desbrosses street ferry, on the North river, Borough of Manhattan.

At the meeting of March 4, 1910, a report was received from the Franchise Committee recommending the Chief Engineer prepare a form of grant for this Company and submit same to the Board for its approval, which report was adopted.

At the meeting of September 30, 1910, a report was received from the Bureau of Franchises stating the Company had not as yet received its certificate of convenience and necessity from the Public Service Commission, and the matter was laid over pending the decision of said Commission.

The Secretary presented the following:

Board of Estimate and Apportionment, City of New York, Bureau of Franchises, 277 Broadway, June 27, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—On March 4, 1910, a report was presented to the Board by the Franchise Committee, with reference to the Manhattan Bridge Three Cent Line, which recommended that a franchise be granted to that Company, provided that terms favorable to the City, including fare and equitable compensation for the privilege granted, be agreed upon between the Company and the City, and it was further recommended that the Chief Engineer be directed to prepare a form of contract and submit the same to the Board for its approval. This recommendation was adopted by the Board and the petition was referred to the Chief Engineer for preparation of the contract.

The Manhattan Bridge Three Cent Line was incorporated by filing a certificate of incorporation in the office of the Secretary of State on December 30, 1909, the purpose being to construct a railway beginning at the Desbrosses Street Ferry on the North River, Borough of Manhattan; thence across West street and along Desbrosses street, Washington street, Greenwich street, Vestry street and Canal street to the Manhattan bridge; thence across the Manhattan Bridge and its approaches to the Borough of Brooklyn; thence along Flatbush Avenue Extension, Fulton street, Rockwell place, Flatbush avenue to the Long Island Railroad station at the intersection of Fourth avenue and Flatbush avenue; thence returning to form a loop upon the following streets: Atlantic avenue, Third avenue, Flatbush avenue, Livingston street, Hoyt street, Bridge street to the Flatbush Avenue Extension.

On the same date a petition was addressed to the Board, applying for the consent of the Board to the construction, maintenance and operation of the railway described in the certificate of incorporation. Accompanying the petition was a letter signed by the President of the Company, in which it was stated that the Company was willing to accept a franchise which would provide that other railroads desiring to use the tracks of the Company may do so upon reasonable terms and that not more than a fare of three cents be charged for a single ride upon any part of the railway.

The petition was presented to the Board on December 7, 1910, and referred to the Chief Engineer.

On February 4, 1910, the preliminary public hearing was duly held, after which the matter was referred to the Franchise Committee which reported upon March 4, 1910, as hereinbefore stated. After the Company had presented its petition to the Board, it applied to the Public Service Commission for the First District for a certificate of convenience and necessity, as required by the Railroad Law. After holding sixteen hearings upon the petition, at which considerable opposition was presented by some of the street surface railways operating in the Borough of Brooklyn, the Commission, on July 12, 1910, granted the certificate. Subsequently, the companies which opposed the granting of the certificate applied to the Commission for a rehearing. This was denied on January 31, 1911, and I understand that an appeal from the decision of the Public Service Commission will be taken by the Brooklyn companies.

Upon receiving instructions from the Franchise Committee, the matter was taken up with the Counsel for the Company and a contract prepared which appeared to this Bureau to be one which the City could safely accept. For a considerable time after sending the contract to Counsel there was no negotiation carried on by the Company, and it was finally deemed necessary by this Bureau to report to the Board the cause of the delay. This was done on September 30, 1910. Recently Counsel has taken the matter up and negotiations have been in progress for some weeks.

Prior to the filing of this petition with the Board, several other petitions had been presented by existing street surface railways, for the use of the Manhattan Bridge and the Flatbush Avenue Extension. These petitions were presented by subsidiary companies of the Brooklyn Rapid Transit Company for the right to operate to the Manhattan end of the Bridge from the Borough of Brooklyn, a similar petition from the Coney Island and Brooklyn Railroad Company, and petitions from the Metropolitan Street Railway Company and the Third Avenue Railroad Company to extend their lines to the Brooklyn end of the Manhattan Bridge. These petitions were referred to the Franchise Committee on February 4, 1910, and no final action has yet been taken.

Subsequent to the filing of the petition of the Manhattan Bridge Three Cent Line, a petition was received from the Triborough Railroad Company, which proposed to operate from the intersection of Flatbush avenue with Fulton street, in the Borough of Brooklyn; thence along the Flatbush Avenue Extension, upon the Manhattan Bridge and along Canal street, in the Borough of Manhattan, to the intersection of Canal, Walker and Baxter streets. This petition was referred to the Franchise Committee, which reported to the Board on June 17, 1910, and acting upon the recommendation of the Franchise Committee, the Board denied the application on that date.

That is the only application for the right to operate cars on the Manhattan Bridge upon which the Board has taken final action.

Proposed Route.

The route as laid out by the Company is in some respects similar to that proposed in a report by this Bureau presented to the Board under date of November 4, 1908. It was suggested in that report that the operation of cars from a point in the Borough of Brooklyn to a point in the Borough of Manhattan would be of more benefit to the traveling public than the operation of local cars on the bridge, from terminal to terminal, and would tend to prevent congestion at the terminals of the Bridge. It was suggested that Canal street in the Borough of Manhattan, and Flatbush Avenue Extension, in the Borough of Brooklyn, in conjunction with the tracks upon the Bridge and its approaches, might possibly be used in forming such a route, and it was believed that this could be worked out by the existing companies in the Boroughs of Manhattan and Brooklyn; that is, that either those companies themselves (upon receiving franchises upon the Manhattan Bridge and the Flatbush Avenue Extension) could put in use some of the existing tracks in the two Boroughs in order to accomplish this mode of operation; or, they could form a company to apply for and obtain the necessary franchises, and use the existing tracks of those companies. Neither the companies operating in the Borough of Manhattan or in the Borough of Brooklyn deemed the operation of such a line to be to their interest, at least no proposition for such operation was presented by these companies. Subsequently, the petition of the applicant Company was presented, as before stated, this Company not being, as I understand it, in any way connected with any other existing company.

It will be noted that the route of the Company is proposed to extend from the Flatbush avenue station of the Long Island Railroad Company in the Borough of Brooklyn, to the Desbrosses Street Ferry on the North River in the Borough of Manhattan, thus intersecting the main business street of Brooklyn, namely—Fulton street, connecting with an important point, that is, the Long Island Railroad Station, and extending entirely across the Borough of Manhattan. The proposed line in the Borough of Brooklyn either intersects or is located at points where easy transfer can be made to practically all the existing street surface and elevated railways in the Borough of Brooklyn, and likewise in the Borough of Manhattan intersects all the longitudinal lines whether elevated, subway or surface railways. Such operation, it is believed, would have the effect of distributing passengers at points where transfer can be made to lines which will take them to their destinations.

There already exist street surface railways on a large proportion of the proposed route—in fact the only railway which will be necessary for the Company to construct, should it obtain its franchise, is upon Flatbush Avenue Extension from the bridge entrance to Fulton street, Rockwell place from Fulton to Flatbush avenue, Fourth avenue from Flatbush avenue to Atlantic avenue, Hoyt street from Livingston street to Fulton street and Bridge street from Fulton street to Flatbush Avenue Extension; all of which is single track with the exception of that upon Flatbush Avenue Extension which is proposed to be double track. Under the present Railroad Law a street surface railway cannot be constructed and operated where there already exists a street surface railway, but the common use of a previously existing railway may be compelled for a distance of one thousand or less feet. In consequence, it will be necessary for the Company to obtain the consent of the existing companies to operate any portion of its route in the Borough of Manhattan in excess of one thousand feet.

In Brooklyn, the situation is somewhat different for the reason that it is not proposed to occupy more than a thousand feet of continuous track of any one company with the exception of the portion upon Livingston street. The franchise for the railway in that street reserves the right to the City to grant a franchise to any other company and requires the Company which operates thereon at the present time to give its consent to the operation of any other company to which the City may grant a franchise.

Proposed Contract.

It is most difficult to draw a franchise which appears to this Bureau to amply protect the City and at the same time meet the objections which have been raised by the Company. It will be easily seen in view of the foregoing that the operation of only a portion of the route would probably not accomplish that which was originally intended; that is, the distribution of passengers to points of easy transfer to lines leading to their destination. It was therefore considered at the outset that the Company should be required to operate the whole of the proposed line as well as the tracks upon the bridge. In order for the Company to guarantee that it will accomplish this it must necessarily have contracts with existing companies for the use of their tracks in Canal street and other streets in the Boroughs of Manhattan and Brooklyn. On the other hand, the Company states that it cannot negotiate to a final conclusion with the existing companies until it has obtained its franchise. Counsel for the Company states that he has taken the matter up with the Receiver of the Third Avenue Railroad Company, which company controls a large part, at least, of the tracks which the Company wishes to use in the Borough of Manhattan, but no conclusion can be reached with that company until it has obtained its franchise.

The report of the sitting Commissioner of the Public Service Commission upon the application of this Company for a certificate of convenience and necessity states as follows:

"For these reasons it is right that the application for a certificate of public convenience and a necessity should be granted. But it should be made emphatic that the public convenience and necessity are deemed to exist for the entire line from the Flatbush avenue station of the Long Island Railroad in the Borough of Brooklyn to the Hudson River in the Borough of Manhattan, and that if the company should fail for any reason to secure operating rights for the whole route it should not be allowed to operate a part. For instance, if it fails to secure operating rights to carry its passengers further west than the plaza of the Manhattan Bridge, it should not be allowed to construct and operate its road to that point only."

Thus showing that the Public Service Commission had in mind that the operation of a part of the route would not accomplish the intended purpose of the Company.

Submitted herewith is a form of contract, five of the conditions of which are not acceptable to the Company. The conditions of the contract are discussed hereinafter.

Term of Grant.

The term of grant has been fixed at ten years with the privilege of renewal for fifteen years upon a revaluation. With the exception of one franchise, I know of none which give the right to operate on any of the East River bridges for a term exceeding ten years; the exception being that of the Third Avenue Bridge Company which was given the right for twenty-five years upon the Queensboro Bridge with no privilege of renewal. In this case, which is unlike any other which the Board has had before it, the bridge forms the central portion of the proposed route. Without the right to operate on the bridge, the railway would be of scarcely any value to either the Company or the traveling public. In consequence, any term of grant fixed for the bridge should also apply to the remainder of the route, which is the reason for fixing the term of grant at a total of twenty-five years, rather than the shorter term for the use of the bridge and the longer term for the use of tracks in the street. The Company, however, objects to so short a term as twenty-five years for the entire route, and asks that the term be fixed at a greater period unless the City agrees to take over the plant and the property not within the streets at the end of the term.

Right not Exclusive.

The contract provides that the City may grant to any other company the right and privilege to operate over the same route and the Company will not oppose the granting of such right.

Compensation for the use of the Company's tracks is to be fixed by arbitration, but the Company receiving the second franchise shall be allowed to use the tracks after the expiration of ninety days after its franchise is obtained, even if the rate of compensation has not prior to that time been fixed. This provision is somewhat different in form from that previously used in that the compensation for the use of such tracks was not fixed by arbitration.

Motive Power and Electric Wires in Conduits.

The contract provides that the motive power in the Borough of Manhattan and upon the Manhattan Bridge shall be the underground electric system and the motive power in the Borough of Brooklyn may be the overhead electric system. This will necessitate the change from one system to the other at some point near the entrance to the Manhattan Bridge on the Brooklyn side.

Wires for the transmission of power, except trolley wires, must be placed underground, underneath or along the side of the railway; it being deemed bad policy to permit the stringing of such wires in this part of the City.

Conditions for the Use of the Bridge.

The contract contains the provisions which were used in franchises to companies to operate upon the Queensboro Bridge. They require that the Company shall use only the tracks assigned to it by the Commissioner of Bridges; that it must submit to the rules and regulations of the Commissioner of Bridges as to the operation of cars upon the bridge; it shall install a signal system if deemed necessary; it must make all changes in the track layout necessary for its operation; all of which work is to be done under the supervision of the Commissioner of Bridges.

Before the operation of cars begins, the Company must file with the Commissioner of Bridges a statement with reference to the kind and dimensions of cars proposed to be operated, etc. These conditions, I believe, give the Commissioner of Bridges full authority over the operation of the proposed railway in so far as is necessary to protect the structure under his care.

Operation of Route in Streets to Begin When Operation Upon Bridge Begins.

There is a clause inserted in the contract by which the Company agrees not to operate upon the Manhattan Bridge until it shall put in operation a railway upon the route from the easterly side of West Broadway in the Borough of Manhattan to the Manhattan Bridge and from the intersection of Flatbush Avenue Extension with Fulton street in the Borough of Brooklyn to the Manhattan Bridge. As already explained, it is believed by this Bureau that the Company should be required to operate a substantial portion of its route, but as already stated, the Company claims it cannot negotiate for the use of existing tracks until it has obtained a franchise, and cannot guarantee the operation of that portion of the route provided for in the provision above mentioned until it has negotiated to a final conclusion with the companies owning the existing tracks.

Rate of Fare.

The rate of fare has been fixed not to exceed three cents for a continuous ride from any point on the proposed road to any other point thereon or line or branch operated by it or under its control. The report of the Franchise Committee which has already been referred to instructed that there be incorporated in the contract a provision that should any merger take place between the applicant and the Manhattan or Brooklyn companies at any time in the future, it shall then become an obligation of this Company to receive passengers from the lines of such merged companies and transfer passengers to the lines of such merged companies at a total fare of not exceeding five cents. This condition has also been inserted, and it provides in addition that failure to comply therewith may result in the forfeiture of the franchise.

Express Matter.

The contract provides that the Company shall operate only passenger and express cars and that no freight cars shall be operated. The operation of cars for the transportation of express matter, however, is not to be permitted between the hours of 6 o'clock a. m. and 8 o'clock p. m., with the further provision that the Board may further limit such operation as public convenience may require. Some of the existing companies in the Borough of Manhattan formerly operated cars for the transportation of express matter, but have discontinued such operation for the reason that it was unprofitable. I doubt very much whether this Company will have an occasion to operate many cars for that purpose. However, I believe that the clause above described will give the Board ample power in the premises should the operation of such cars become a nuisance or a detriment to the operation of passenger cars.

Compensation and Security Fund.

This is the first application to my knowledge which has been presented to the Board for a railway upon which the fare is proposed by the applicant company to be as little as three cents, and therefore, there is no data upon which to base the probable income of such a project. Further than that an interborough railway between Brooklyn and Manhattan is without precedent. I obtained, however, from the Public Service Commission a copy of the estimated income of the Company, as submitted to that Commission during the time when the application for a certificate of convenience and necessity was pending. Upon this estimated probable income was calculated the amounts originally proposed for the minimum annual payments; that is, applying the three per cent. of the gross receipts for the first five years and five per cent. thereafter, which is the minimum percentage which the Company is required to pay under the Railroad Law. These minimum annual payments were submitted to the Company's representatives who contended that it could not pay such sums. Subsequently these amounts were somewhat reduced upon the theory that if the gross income of the Company is such that three and five per cent. of the same will yield more than that proposed by the annual minimum payments, the City will in any event receive the larger amount. The compensation provided by the contract is as follows:

(a) The sum of fifteen thousand dollars ($15,000) in cash within three (3) months after the signing of the contract.

(b) During the first five years three (3) per cent. of the gross receipts, to be not less than four thousand dollars ($4,000) per annum.

During the second five years, five (5) per cent. of the gross receipts, to be not less than seven thousand dollars ($7,000) per annum.

(c) For the use of the tracks owned by the City upon the Manhattan Bridge and approaches thereto, the sum of five (5) cents for each round trip for each car operated on the bridge; this last item being the amount which is paid by all the companies operating cars across the East River bridges.

It is provided that the compensation shall not be construed in any manner in the nature of a tax; that is, that the Company shall not be permitted to deduct the amounts paid for this franchise from its special franchise tax.

The security deposit has been fixed at the sum of ten thousand dollars ($10,000), to be paid to the Comptroller in either cash or securities to be approved by him, to insure the faithful performance of the terms and conditions of the franchise.

Other Provisions.

The other provisions contained in the contract are those which have heretofore been used for street surface railway franchises, and do not, I believe, need a special explanation.

—

The contract has been gone over carefully with the Counsel for the Company with a result that it seems to be impossible at the present time at least, to recommend a contract which is entirely acceptable to the Company. Counsel for the Company objects to five of the provisions of the contract attached hereto, as follows:

First—Section 3, Subdivision Fourth. This provision requires the operation of the railway in the streets between West Broadway and the Manhattan Bridge and Fulton street and the Manhattan Bridge in the Borough of Brooklyn when it begins operation on the Manhattan Bridge. The Company requests that this clause be modified to provide that the Company shall not operate cars upon the Manhattan Bridge until it shall have put in operation the railway upon the entire route unless it shall first obtain from the Board special permission to do so.

Second—The present contract provides that the initial payment of fifteen thousand dollars and the security deposit of ten thousand dollars be paid to the City within a fixed time after the contract is signed by the Mayor and that upon a forfeiture of the right, such sums are to become the property of the City. The Company wishes these sums returned to it if it is prevented from operating its railway by a final decree of a court of competent jurisdiction.

Third—Section 4, Subdivision First. This provision provides for compensation. By it the minimum annual payments are required from the date of the signing of the contract. The Company asks that these payments begin on the date of the commencement of operation.

Fourth—The subdivision last above referred to provides that none of the payments required shall be considered in any manner in the nature of a tax. The Company requests that the payment of three and five per cent. of the gross receipts be eliminated from that provision. In other words, the Company asks that it be allowed to deduct those payments from any sums which it may pay as a special franchise tax.

Fifth—Section 2, Subdivision Fourth. This provision provides that the property in the streets shall become the City's at the end of the term of grant. The Company wishes added to this provision a clause requiring the City to purchase at the end of the term at its then value the property not within the streets, provided the Company does not receive rights to further continue operation.

In view of the facts that the Franchise Committee has before it various other applications to operate upon the Manhattan Bridge and that it has already reported upon the application of this Company, it seems best that the contract be referred again to that Committee to determine what policy it wishes to pursue with reference to this application and to the various conditions in the franchise which have not been accepted by the Company.

It is recommended, therefore, that the application be again referred to the Franchise Committee, Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

Synopsis of Provisions of Contract.

Section 1. Grant.
    First—On streets.
    Second—On Manhattan Bridge.
Section 2. Conditions for franchise upon streets.
    First—Consents of property owners to be obtained.
    Second—Term of grant.
    Third—Right not exclusive.
    Fourth—Property to become City's at the end of term of grant.

Fifth—Commencement and completion of construction.

Sixth—Railway to be constructed, maintained and operated under the supervision of the proper local authorities.

Seventh—Motive power.

Eighth—Wires to be placed underground.

Ninth—Ice and snow to be removed.

Tenth—Company to pave between tracks.

Eleventh—Expense of alteration to drainage or sewerage systems to be borne by Company.

Twelfth—Right not to interfere with or be a hindrance to public work.

Thirteenth—If grades or lines of streets are changed, Company to change track to conform therewith.

Section 3 Conditions for franchise upon bridge.

First—Term of grant.

Second—Company to use tracks assigned to it by Commissioner of Bridges; to install signal system if required, etc.

Third—All apparatus of Company to be subject to inspection of Commissioner of Bridges and Company to comply with rules of said Commissioner.

Fourth—Cars not to be operated on bridge until the entire route between West Broadway and Fulton street is operated.

Fifth—Right not to affect authority of Commissioner of Bridges to make alterations and changes in construction.

Section 4. Conditions for franchise both on streets and on bridge.

First—Compensation.

Second—Annual charges to continue throughout whole term.

Third—Rights not to be assigned.

Fourth—Railway to be constructed and operated in the latest approved manner.

Fifth—Rate of fare.

Sixth—No freight cars to be operated.

Seventh—Fenders and wheelguards to be provided.

Eighth—Cars to be heated.

Ninth—Cars to be lighted.

Tenth—Headway of cars.

Eleventh—Annual report to the Board.

Twelfth—Company to keep accurate books of account.

Thirteenth—City may sue for forfeiture.

Fourteenth—Fine for inefficient public service.

Fifteenth—Company to assume all liability of damages.

Sixteenth—Security deposit.

Seventeenth—Definition of "notice and direction."

Eighteenth—Definition of "streets and avenues."

Nineteenth—If powers of Board or other authorities are transferred, then such other board or officers shall act for City.

Section 5. Contract not to limit jurisdiction of Public Service Commission.

Section 6. Provisions of Railroad Law to be complied with

Section 7. Company agrees to abide by all terms and conditions.

MANHATTAN BRIDGE THREE CENT LINE.

Proposed Form of Contract.

This contract, made this day of , 1911, by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Manhattan Bridge Three Cent Line (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the following rights and privileges:

First—To construct, maintain and operate a street surface railway with the necessary wires and equipment for the purpose of conveying passengers and property in the Boroughs of Manhattan and Brooklyn, in The City of New York, upon the following routes:

(1) Beginning at a point in the marginal way adjacent to the North River at or near the Desbrosses Street Ferry, thence by double track in, upon and across the

marginal way and West street to Desbrosses street, thence by double track in and upon Desbrosses street to Washington street, thence by single track in and upon Washington street to Vestry street, thence by single track in and upon Vestry street to Greenwich street, thence by double track in and upon Vestry street to Canal street, thence by double track in and upon Canal street to a point easterly from the Bowery and opposite the property acquired by the City for a terminal to the Manhattan Bridge, thence southerly in, upon and across Canal street to a point on the southerly side thereof where a connection can conveniently be made with the tracks to be constructed by the City upon said Manhattan Bridge, its approaches and terminals.

Also a branch beginning at and connecting with the above described route at the intersection of Washington and Desbrosses streets, thence by single track in and upon Desbrosses street to Greenwich street, thence by single track in and upon Greenwich street to Vestry street, and there connecting with the above-described tracks in said last-named street, all in the Borough of Manhattan.

(2) Beginning at a point on the northerly side of Nassau street, where a connection can conveniently be made with the tracks to be constructed by the City upon the Manhattan Bridge, its approaches and terminals, thence by double track in, upon and across Nassau street to Flatbush Avenue Extension, thence by double track in and upon Flatbush Avenue Extension to its intersection with Fulton street, thence by single track in and upon Fulton street to Rockwell place, thence by single track in and upon Rockwell place to Flatbush avenue, thence by single track in and upon Flatbush avenue to Fourth avenue, thence by single track in and upon Fourth avenue to Atlantic avenue, thence by single track in and upon Atlantic avenue to Third avenue, thence by single track in and upon Third avenue to Flatbush avenue, thence by single track in and upon Flatbush avenue to Livingston street, thence by single track in and upon Livingston street to Hoyt street, thence by single track in and upon Hoyt street to Fulton street, thence by single track in and upon Fulton street to Bridge street, thence by single track in and upon Bridge street to Flatbush Avenue Extension, and there connecting with the above-described double track in Flatbush Avenue Extension, all in the Borough of Brooklyn. And to cross such other streets and avenues, named and unnamed, as may be encountered in said routes. Provided, however, that nothing in this contract shall be construed as permitting more than a double track in any portion of said routes or branches thereof in which there already exist street surface railway tracks.

The said routes with turnouts, switches and crossovers hereby authorized are shown upon a map entitled: "Map showing proposed track of the Manhattan Bridge Three Cent Line in the Boroughs of Manhattan and Brooklyn, City of New York, to accompany petition to the Board of Estimate and Apportionment, dated December 30, 1909," and signed by F. W. Rowe, President, and J. C. Brackenridge, Engineer; a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description, and the other provisions of this contract may be permitted by resolution of the Board.

Second—To operate the cars of the Company upon two (2) tracks when constructed upon the Manhattan Bridge and approaches thereto, such tracks to be assigned to the Company by the Commissioner of Bridges; beginning at a point in the southerly side of Canal street upon the land acquired by the City for bridge terminal purposes, in the Borough of Manhattan, and there connecting with the tracks of the Company first above described, thence in and upon said bridge terminal to the approach to the Manhattan Bridge in the Borough of Manhattan, thence upon and along said bridge approach to the Manhattan Bridge, thence upon and along said bridge to the approach thereto in the Borough of Brooklyn, to land acquired for the Manhattan Bridge terminal in the Borough of Brooklyn, thence upon and along said land to Nassau street, and there connecting with the above-described tracks in Nassau street. The said route is more particularly shown upon the map hereinbefore referred to and is to be operated by the Company as a continuous route in connection with the route hereinbefore described.

Section 2. The grant of the right or privilege to construct, maintain and operate said railway from a point in the marginal way adjacent to the North River at or near Desbrosses Street Ferry to the entrance to the Manhattan Bridge and upon the approach thereto upon the routes hereinbefore described in the Borough of Manhattan, and from the entrance to the Manhattan Bridge to the intersection of Atlantic avenue with Fourth avenue, upon the routes hereinbefore described in the Borough of Brooklyn, is subject to the following conditions which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within six (6) months from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the Company shall, within said six (6) months or within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right and privilege shall be held and enjoyed by the Company for the term of ten (10) years from the date upon which this contract is signed by the Mayor, with the privilege of renewal of said contract for the further period of fifteen (15) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding fifteen (15) years shall be reasonable, and either the City (by the Board) or the Company shall be bound upon request of the other to enter into a written agreement with each other, fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained. fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of the original term of this contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company each paying one-half thereof.

Third—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any other corporation or to any individual a similar right or privilege upon the same or other terms and conditions over the routes hereinbefore decribed, and the Company shall not at any time oppose, but shall consent to the construction and operation of any street surface railway by any such other corporation or individual which may receive a franchise therefor from the City, and which may necessitate the use of any portion of the railway which shall be constructed by the Company pursuant to this contract.

Should the City at any time during the term of this contract grant the right to any other corporation or to any individual the right or privilege to operate a railway upon the tracks of the Company on the route herein described or any portion thereof, then the City shall within thirty (30) days thereafter give notice to the Company that such right has been granted and of the name of the corporation or individual to which such right has been granted.

At the expiration of ninety (90) days after the giving of such notice such individual or corporation shall have the right to begin the operation of cars upon the tracks of the Company upon the route or any portion thereof over which such corporation or individual may receive a right or privilege, and continue such operation during the term thereof. Such corporation or individual shall pay to the Company for the right to use its tracks, equipment, power and all other property of the Company which shall be necessary in the operation of the railway upon the Company's tracks, such sum or sums as may be agreed upon by such corporation or individual and the Company within said ninety (90) days, or in the event that such agreement cannot be reached within said ninety (90) days, then such sum or sums as shall be determined by arbitrators, as hereinafter provided.

If the Company and such corporation or individual cannot, prior to the expiration of said ninety (90) days, agree upon the compensation for the use of such tracks, then such compensation shall be fixed by arbitrators selected in the following manner:

One fit and impartial person shall be chosen by the Company; one fit and impartial person shall be chosen by such corporation or individual. In default of such selection by either party within thirty (30) days after the expiration of said ninety (90) days, then the person who shall have been so selected by one party shall appoint and associate with himself one fit and impartial person for the purposes aforesaid, and if the persons so chosen shall differ in judgment, they shall appoint a fit and impartial person to be associated with them for the said purpose, if they can agree upon such person, or if they cannot agree, then each of them shall nominate two fit and impartial persons and from the names of the four persons so nominated that of one of them shall be drawn by lot, who shall be associated for the purpose aforesaid with the said two persons previously so respectively chosen or appointed. The decision under oath of any two of the said persons who shall be so selected shall be final and conclusive. The compensation and expenses of the persons so selected shall be borne by the individual or corporation to which such right may be granted.

Within thirty (30)) days after an agreement has been reached between said parties or in case said agreement cannot be reached before the time specified herein, then within thirty (30) days after the determination of the arbitrators as herein provided, the said parties shall enter into a written agreement which will specify the sum or sums which such corporation or individual shall pay to the Company for said privilege and the Company shall file the same with the Board. If the Company fails to sign such an agreement within said thirty (30) days and file the same with the Board, then the right herein granted shall cease and determine.

Fourth—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any Company or individual.

If, however, at the termination of this contract as above, the Board shall so order, by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract, and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Fifth—The Company shall commence construction of the railway herein authorized within three (3) months from the date upon which the consents of the property owners are filed with the Board or from the date of the order of the Appellate Division of the Supreme Court made pursuant to section 174 of the Railroad Law confirming the determination of the Commissioners appointed thereunder, that such railway ought to be constructed, and shall complete the construction and place the same in full operation within six (6) months from the date of filing such consents or the date of such order; otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinafter provided, shall thereupon be forfeited to the City; provided that the period for commencement and the period for completion and placing the railway in full operation may be extended by the Board, but the total extension of time for either of such periods shall not exceed in the aggregate six (6) months; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided further, that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board, the Company shall, in writing, consent that the Board either in its own name as a party, or in the name of the City as a party, may intervene in any such proceedings.

Sixth—Said railway shall be constructed, maintained and operated subject to the supervision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials. In any permits so issued such officials may also impose such conditions as a condition of the granting of the same, as are necessary for the purpose of protecting any structures, in the streets and avenues, over which such officials have jurisdiction and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Seventh—The portion of said railway in the Borough of Manhattan and upon the Manhattan Bridge and its terminals shall be operated by underground electric power substantially similar to the system of underground electric power now used by the street surface railways in the Borough of Manhattan, by gas engine power or by electric storage battery power; provided that any other power may be used, except locomotive steam power, horse power or overhead electric power, which may be lawfully used, approved by the Board and consented to by the abutting property owners in accordance with the provisions of law and by the Public Service Commission for the First District of the State of New York. The portion of said railway in the Borough of Brooklyn, except upon the Manhattan Bridge and its terminals, may be operated by overhead electric power substantially similar to the overhead electric system now in use by street surface railways in the Borough of Brooklyn, by gas engine power or by electric storage battery power; provided that any other power may be used, except locomotive steam power or horse power, which may be lawfully used, approved by the Board and consented to by the abutting property owners in accordance with the provisions of law and by the Public Service Commission for the First District of the State of New York.

Eighth—No wires for the transmission of power, except trolley wires, shall be permitted unless they be placed in conduits underneath or along the side of the railway. When such conduits are constructed the Company shall provide two (2) conduits not less than three (3) inches in diameter each for the exclusive use of the City. The Company hereby agrees that such conduits shall be used only by the Company and the City, as above.

Ninth—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails, on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the Commissioner of Street Cleaning, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Tenth—As long as said railway, or any portion thereof, remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. In case of the neglect of the Company to make pavement or repairs in the Borough of Manhattan after the expiration of thirty (30) days' notice to do so from the President of the Borough of Manhattan or to make pavement or repairs in the Borough of Brooklyn, after like notice from the President of the Borough of Brooklyn, then the said Presidents or either of them may make such pavement or repairs in their respective Boroughs at the expense of the Company. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City official, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

Eleventh—Any alteration to the sewerage or drainage systems, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Twelfth—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance to public work of the City, and should the said railway in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Thirteenth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets and avenues the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Section 3. The grant of the right or privilege to operate cars upon two (2) tracks on the Manhattan Bridge and the approaches thereto, upon the route hereinbefore described, and to use other equipment owned by the City upon said bridge, is subject to the following conditions, which shall be complied with by the Company:

First—The said right and privilege shall be held and enjoyed by the Company for a term of ten (10) years from the date upon which this contract is signed by the Mayor, with the privilege of renewal of said contract for the further period of fifteen (15) years, upon a fair revaluation of said right and privilege.

Such revaluation shall be made in like manner and upon the same conditions as that herein provided for the revaluation of the right and privilege to construct, maintain and operate a railway from Desbrosses Street Ferry to the Manhattan Bridge in the Borough of Manhattan and from the intersection of Atlantic avenue with Fourth avenue to the Manhattan Bridge in the Borough of Brooklyn.

Second—The Company shall use only such tracks as shall be assigned to the Company by the Commissioner of Bridges, and nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions, or to affect the right of the Commissioner of Bridges to assign the same or other tracks to such individual or other corporation.

Such tracks and all electrical equipment necessary for the operation of cars thereon shall be installed at the expense of the City, and shall remain the property of the City, but the Company shall pay the cost of keeping and maintaining such tracks and electrical equipment in good order and repair, and in such manner as shall be approved and directed by the Commissioner of Bridges, and shall furnish all motive power required by the Commissioner of Bridges, for the operation of its cars, and the Company shall renew any or all tracks and electrical equipment used by it upon the bridge and its terminals when directed by the Commissioner of Bridges and in such manner as may be prescribed by him. If deemed necessary by the Commissioner of Bridges, the Company shall install and operate a system of signals to insure the safe and efficient operation of cars; such system to be approved by the Commissioner of Bridges. In the event of any necessity for changing the layout of tracks, curves, switches, sidings or platforms on the bridge in order to facilitate operation of cars by the Company, said Company must do all the work and furnish all the labor and tools necessary for affecting such changes, which shall all be made under the control and direction of the Commissioner of Bridges, and no such changes or construction connected therewith, or relating thereto, shall be made unless the plan or plans for the same have been first submitted to the Commissioner of Bridges and approved by him.

If, however, the tracks and appliances herein mentioned are used by any other individual or corporation, then the Company shall bear only such proportion of the cost or work required by the terms and conditions of this subdivision as the use of such track and appliances by the Company bears to the entire use of such track and appliances.

Third—Before beginning the operation of the cars, the Company shall file with the Commissioner of Bridges a statement for his approval and assent as to the type of car which it proposes to operate and a sketch showing clearance dimensions, weight on axles and wheel spacing, or such other information as may be required by said Commissioner. All cars operated over the bridge by the Company and all equipment and appliances relating to such operation shall be subject at all times to the inspection of the Commissioner of Bridges or his authorized representatives, who shall have power to forbid the entrance to the bridge of cars which may for any reason be unsatisfactory, and who shall have power to direct the removal of any old or inadequate appliance and the substitution therefor of appliances of approved character.

Said Commissioner may adopt rules and regulations in regard to the number of cars to be operated over the bridge, the rate of speed of said cars, the movement and headway thereof, the type and weight of cars to be used and the condition thereof, the switching of cars and the use of platforms and the control of the electrical current used by the Company, and the said Commissioner may alter and amend any such rules and regulations so as to secure the safety and comfort of persons using the bridge and preserve the purposes for which the bridge was constructed, and, upon serving notice upon the Company that such rules and regulations have been made, amended or altered, the Company shall comply with all the requirements thereof.

Fourth—The Company shall not operate cars upon the Manhattan Bridge until the Company shall have put in operation the railway upon the routes hereinbefore described from the easterly side of West Broadway to the westerly approach to the Manhattan Bridge in the Borough of Manhattan, and from the easterly approach to said bridge to the intersection of Flatbush Avenue Extension with Fulton street in the Borough of Brooklyn.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the Commissioner of Bridges to make any alterations or changes in the construction, operation or management of the bridge or to affect in any way the control of such Commissioner over such bridge, as provided by the Charter of the City.

Section 4. The grant of the said right and privilege to construct, maintain and operate a street surface railway from a point in the marginal way adjacent to the North River at or near Desbrosses Street Ferry to the westerly approach to the Manhattan Bridge in the Borough of Manhattan and from the easterly approach to said bridge to the intersection of Fourth and Atlantic avenues in the Borough of Brooklyn, upon the routes hereinbefore described and the grant of the said right and privilege to operate cars upon the Manhattan Bridge and the approaches thereto are both subject to the following conditions which shall be complied with by the Company:

First—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of fifteen thousand dollars ($15,000) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first of five (5) years an annual sum which shall in no case be less than four thousand dollars ($4,000), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of four thousand dollars ($4,000).

During the second term of five (5) years an annual sum which shall in no case be less than seven thousand dollars ($7,000), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of seven thousand dollars ($7,000).

The gross annual receipts mentioned above shall be the gross receipts of the Company from all sources within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

(c) For the use of the tracks owned by the City upon the Manhattan Bridge and the approaches thereto, the sum of five cents for each round trip or the sum of two and one-half cents for each single trip of each and every car operated upon the bridge.

The number of such cars shall be certified by the Commissioner of Bridges to the Comptroller once each month in such form as shall be designated by the Comptroller.

All annual charges as above shall be paid into the treasury of the City on November 1 of each year, and shall be for the amount due to September 30 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentages of gross receipts now required to be paid by railway companies to the City pursuant to the Railroad Law as amended.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City or resolution of the Board or any law of the State of New York.

Second—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Third—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company, or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any wise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Fourth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Fifth—The rate of fare for any passenger upon said railway shall not exceed three (3) cents, and the Company shall not charge any passenger more than three (3) cents for one continuous ride from any point on its road or on any road, line or branch operated by it or under its control to any other point thereof or any connecting branch thereof within the limits of the City.

Should the Company at any time during the term of this contract be merged or consolidated with any other street surface railway company or companies, whose lines connect with or intersect the lines of the Company, the Company shall, by reason of such merger or consolidation, become obligated to receive passengers from and transfer passengers to the lines of such merged or consolidated company or companies and said passengers shall be given a continuous ride over the lines of the Company and the lines of such merged or consolidated company or companies for a single fare of not exceeding five (5) cents.

In the event of the failure at any time subsequent to such merger or consolidation of the Company or any merged or consolidated company or companies whose lines connect with or intersect the lines of the Company or of the successors or assigns of such company or companies for any reason whatsoever to receive and transfer passengers as hereinabove provided, this franchise shall ipso facto become void and forfeited.

The Company shall carry free upon the railway hereby authorized during the term of this contract all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Sixth—No cars shall be operated upon the railway hereby authorized, other than passenger cars, cars for the transportation of express matter and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway. Provided that no cars for the transportation of express matter shall be operated between the hours of six o'clock a. m. and eight o'clock p. m. daily, and that the Board may further limit the operation of such cars as public convenience may require.

The rate for the carrying of property over the said railway upon the cars of the Company shall in all cases be reasonable in amount, subject to the control of the Board, and may be fixed by the Board after notice to the Company and a hearing had thereon, and when so fixed such rates shall be binding upon the Company, and no greater sums shall be charged for such services than provided for by it.

Seventh—The Company shall attach to each car run over the said railway proper fenders and wheelguards, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Eighth—All cars which are operated on said railway shall be heated during the cold whether, in conformity with such laws and ordinances as are now in force, or may hereafter during the term of this contract be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Ninth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Tenth—Cars on the said railway shall run at intervals of not more than thirty (30) minutes both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board.

Eleventh—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time upon the request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amounts paid by the Company for damage to persons or property on account of construction and operation.
18. Total expenses for operation, including salaries.

—and such other information in regard to the business of the Company as may be required by the Board.

Twelfth—The Company shall at all times keep accurate books of account of the gross receipts from all sources within the limits of the City, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross receipts, the total miles in operation within the limits of the City and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report and may examine its officers under oath.

Thirteenth—In case of any violation or breach or failure to comply with any of the provisions herein contained or with any orders of the Board acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsl, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Fourteenth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structures or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid, shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Fifteenth—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Sixteenth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of ten thousand dollars ($10,000), either in money or securities, to be approved by him, which fund shall be security for the performance by the Company of all of the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, the quality of construction of the railway and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions, or compliance with such orders or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice to the Company; or in case of failure to observe the said terms and conditions of this contract and orders of the Board acting thereunder, relating to the headway, heating and lighting of cars, fenders, wheelguards and watering of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation, and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheelguards, in case of a violation of the provisions relating to these matters, all of which sums may be deducted from said fund.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its President, or other officer, to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or after a hearing appears in the judgment of the Board to be in fault, said Board shall forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposted with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice, pay to the City a sum sufficient to restore said security fund to the original amount of ten thousand dollars ($10,000), and in default thereof this contract shall be cancelled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Seventeenth—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Eighteenth—The words "streets or avenues" and "streets and avenues," wherever used in this contract, shall be deemed to mean "streets, avenues, highways, driveways, bridges, viaducts, public places or any other property to which the City has title or over which the public has an easement," encountered in the route hereinabove described, and upon or in which authority is hereby given to the Company to construct a railway.

Nineteenth—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned, shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers, shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Section 5. Nothing in this contract shall be construed as in any manner limiting the present or future jurisdiction of the Public Service Commission under the laws of the State of New York.

Section 6. This grant is also upon the further and express condition that the provisions of article 5 and other provisions of the Railroad Law, pertinent hereto, shall be strictly complied with by the Company.

Section 7. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,

[CORPORATE SEAL.] By ...., Mayor.

Attest: ...., City Clerk.

MANHATTAN BRIDGE THREE CENT LINE,

[SEAL.] By ...., President.

Attest: .... Secretary.

(Here add acknowledgments.)

The matter was referred to the Franchise Committee.

Twenty-eighth and Twenty-ninth Streets Crosstown Railroad Company.

In the matter of the petition of the Twenty-eighth and Twenty-ninth Streets Crosstown Railroad Company for a franchise to construct, maintain and operate a street surface railway from the existing tracks of the Company at West 28th street and Seventh avenue, upon and along Seventh avenue to West 33d street, to Eighth avenue, to West 31st street, to Seventh avenue, there connecting with the existing tracks of the Company, Borough of Manhattan.

By resolution adopted June 8, 1911, this day was fixed as the day for public hearing.

The Secretary presented the following:

Mayer and Gilbert, New York, June 26, 1911.

The Honorable, the Board of Estimate and Apportionment, 277 Broadway, New York City.

Gentlemen—In respect of the petition of the Twenty-eighth and Twenty-ninth Streets Crosstown Railroad Company for a franchise designed to connect up said line with Pennsylvania Station, and which is set for public hearing on July 6, 1911, I beg to say that I am advised that the Borough President deems it unwise to have additional tracks in Seventh or Eighth avenues, or any tracks in 31st and 33d streets.

Under the circumstances, and until a satisfactory plan can be worked out, I beg to withdraw the petition and to state that consequently there will be no need of a public hearing on July 6. Yours very truly,

JULIUS M. MAYER, Attorney for JOSEPH B. MAYER, Receiver.

Board of Estimate and Apportionment, The City of New York, **Bureau of Franchises**, June 27, 1911.

HON. WILLIAM J. GAYNOR, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Under date of May 12, 1911, the Twenty-eighth and Twenty-ninth Streets Crosstown Railroad Company, by its Receiver, Mr. Joseph B. Mayer, petitioned the Board for the right to construct, maintain and operate a street surface railway in the Borough of Manhattan upon the following route:

Beginning at the intersection of West 28th street and 7th avenue; thence northerly by double track in 7th avenue to West 32d street; thence northerly by single track in 7th avenue to West 33d street; thence westerly by single track in West 33d street to 8th avenue; thence southerly by single track in 8th avenue to West 31st street; thence easterly by single track in West 31st street to 7th avenue, and there connecting with the track in 7th avenue above described.

The petition was presented to the Board on May 25, 1911, and referred to the Chief Engineer.

At the meeting held on June 8, 1911, the Board adopted a resolution fixing July 6, 1911, as the date for the preliminary public hearing, and requesting the Mayor to designate the newspapers in which to publish the notice of such hearing, as required by law.

Subsequent to the filing of the petition, a copy of the same was transmitted to the President of the Borough of Manhattan, which is the usual custom, with a request that he have the matter investigated and report any objections he may have to the proposed route or suggest any special conditions which he believes should be imposed in the grant. In reply thereto, under date of June 22, 1911, the President of the Borough of Manhattan states that the territory in which the railway is proposed to be operated has been examined by his Consulting Engineer and Commissioner of Public Works and that they have determined that it would be unwise to construct any additional tracks in 7th and 8th avenues or any tracks at all in West 31st or West 33d streets and that his Engineers are convinced that traffic conditions in the vicinity of the Pennsylvania terminal situated between West 31st and West 33d streets and 7th and 8th avenues, would prohibit the operation of street surface railways in those streets.

Upon the receipt of this communication, the representatives of the Company were advised of the opposition and a conference was held in this office at which the Receiver of the applicant Company, President of the Borough of Manhattan and the Pennsylvania Railroad Company were represented. It was agreed by the representatives of the applicant Company that in view of the suggestions made, it would not proceed further with its application until a plan had been worked out whereby a route could be selected which would be satisfactory.

Accordingly, Mr. Julius M. Mayer, Counsel for the Receiver of the applicant Company, addressed a letter to the Board under date of June 26, 1911, in which he states that in view of the circumstances he wishes to withdraw the petition until a satisfactory plan can be worked out.

Consequently the public hearing fixed for July 6, 1911, should not be held and it is suggested that the matter be referred back to the Bureau of Franchises until the Company has determined upon a definite plan. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The matter was then referred back to the Bureau of Franchises.

New York Edison Company.

In the matter of the application of the New York Edison Company for permission to install, maintain and use eighteen (18) additional terra cotta ducts, set in concrete and designed to contain electrical conductors, in the existing bridge over East 39th street, connecting the power stations of the Company on the east side of First avenue, Borough of Manhattan.

This application was presented to the Board at the meeting of June 22, 1911, and referred to the Bureau of Franchises.

The Secretary presented the following:

Board of Estimate and Apportionment, Bureau of Franchises, City of New York, June 6, 1911.

To the Honorable Board of Estimate and Apportionment, City of New York:

Sirs—The bridge over East 39th street connecting our two power stations on the east side of First avenue, was completed in accordance with the amended plan which was approved by the Board November 19, 1909, and filed as Approved Resolution No. 50. We now find it necessary, owing to increase in our business and to provide for future extensions, to request permission for the installation of eighteen additional terra cotta ducts set in concrete and designed to contain electrical conductors connecting the busses of the two power stations.

Permission to lay these ducts is asked for on account of increase in business and owing to remodelling of one of the power houses now in course of construction, which has demanded an increase in the capacity of Waterside Power Station No. 1, making desirable an increase in the bus tie connection so that both power stations can be operated from either switchboard. This increase in business requires the introduction of a 60 cycle current bus in Waterside No. 1, which station has heretofore had no 60 cycle bus, and six of the proposed ducts are to be devoted to the connection of this new bus to the corresponding bus in Waterside No. 2. In planning the reconstruction of Waterside No. 1 it has been found desirable to provide facilities for future railroad business for the operation of which a special railroad bus has been arranged.

The large increase in the 25 cycle current capacity of Waterside No. 1, now being installed over 50,000 kilowatts, and the consequent increase in the number of distributing feeders requires the extension of the bus in this station and at least six of the remaining twelve ducts will be devoted at once to the necessary additional 25 cycle current bus connection.

The introduction of these additional ducts on the bridge overloads the present steel trusses and we have designed two additional trusses and reinforcement to take the added load. This reinforcement will not in any way affect the outside appearance of the bridge, and involves merely an extension in the interior of the existing facilities.

We are sending under separate cover drawings of a section of the bridge showing the proposed ducts and the new trusses and reinforcement.

Respectfully, J. W. LIEB, JR., Third Vice-President.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, June 29, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment.*

Sir—The Board of Estimate and Apportionment adopted a resolution on June 25, 1909, which was approved by the Mayor June 29, 1909, granting permission to the New York Edison Company to construct, maintain and use an enclosed single span bridge over and across East 39th street, in the Borough of Manhattan, about twelve feet east of the easterly line of First avenue and fifty feet above the roadway. The bridge connects the Company's buildings on opposite sides of the street and is used as a passageway between the buildings. It was also designed to carry electric cables in the flooring, but under date of October 22, 1909, the Company presented a petition to the Board requesting permission to amend the plan of the bridge so as to provide for the carrying of the electric cables set in concrete above the passageway instead of in the flooring. The petition further requested authorization to install twelve additional ducts along the easterly side of the bridge for the purpose of conducting telephone and signal wires between the buildings. No objections were found to the proposed amendment and a resolution was adopted by the Board of Estimate and Apportionment on November 19, 1909, and approved by the Mayor on November 22, 1909, authorizing the change in position of the ducts and the additional ducts along the easterly side of the bridge.

The Company has now presented a petition dated June 6, 1911, to the Board of Estimate and Apportionment for permission to install eighteen additional ducts on the bridge. The petition recites that owing to an increase in the Company's business and in order to provide for future extensions, the capacity of one of the Company's power houses has been considerably increased and the additional ducts are necessary in order to carry the increased current.

The proposed additional ducts will overload the present steel trusses which will therefore require reinforcement. The necessary reinforcements are shown on the plan accompanying the petition and have been designed to lie entirely within the lines of the existing bridge.

Copies of the petition and accompanying plan were sent to the President of the Borough of Manhattan and to the Commissioner of Water Supply, Gas and Electricity, with a request that examinations be made by the various bureaus having jurisdiction, with a view to ascertaining if there are any objections to the installation of the additional ducts or to the necessary reinforcements on account of the ducts

Replies to said communications dated June 19 and June 28, 1911, state there are no objections to the granting of the requested permission, and no particular conditions necessary to be inserted in the form of consent.

I can see no good reason why the requested permission should not be granted should the Board see fit to do so, particularly as the administrative departments of the city offer no objections. In such case I would, therefore, suggest that the resolution granting the consent for the said bridge as amended by the Board on November 19, 1909, be amended so as to permit of the installation of the proposed additional ducts and the requisite reinforcement of the bridge.

A resolution so providing is herewith submitted for adoption.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, By resolution adopted by the Board of Estimate and Apportionment on June 25, 1909, and approved by the Mayor June 29, 1909, the New York Edison Company was granted permission to construct, maintain and use an enclosed single span bridge over and across East 39th street at a point about twelve (12) feet east of the easterly line of First avenue, connecting its power houses on both sides of said street, the said bridge to be used as a passageway and to contain electric cables situated on the said bridge as shown on a certain plan attached to and made a part of said consent, and

Whereas, Said consent was amended by resolution adopted by the Board of Estimate and Apportionment November 19, 1909, and approved by the Mayor November 22, 1909, so as to permit of the carrying of the authorized cables and certain additional cables on the said bridge in the manner shown on a plan attached to and made a part of the said resolution of November, 1909, and

Whereas, The New York Edison Company has presented a petition dated June 6, 1911, to the Board of Estimate and Apportionment, requesting permission to install certain additional ducts on the said bridge to contain electric cables and to reinforce the said bridge in such manner as to carry the proposed additional ducts; now, therefore, be it

Resolved, That the resolution adopted by the Board of Estimate and Apportionment on June 25, 1909, approved by the Mayor June 29, 1909, and amended by resolution adopted November 19, 1909, and approved by the Mayor November 22, 1909, be and it hereby is amended so as to permit of the carrying of eighteen additional ducts and the reinforcing of the said bridge, all as shown on a plan, entitled:

"Second Amendment to plans showing location of Proposed Bridge connecting Water side Power-Houses over East 39th Street, Borough of Manhattan, New York City, for The New York Edison Company, 55 Duane Street, New York City. Date, June 1, 1911, Scale ½" = 1'-0."

—and signed J. W. Lieb, Jr., Third Vice-President, a copy of which is attached hereto and made a part hereof, and be it further

Resolved, That this consent should not become operative until the said grantee shall duly execute an instrument in writing wherein said grantee shall promise, covenant and agree on its part to conform to, abide by and perform all the terms, conditions and requirements in the original consent fixed and contained, except as herein and hereby expressly modified and file the same with the Board of Estimate and Apportionment of the City of New York within thirty (30) days after the approval of this consent by the Mayor.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

New York Central and Hudson River Railroad Company.

In the matter of the application of the New York Central and Hudson River Railroad Company for permission to continue to maintain and use an existing track diagonally across Harlem River Terrace, at a point about 850 feet north of the northerly line of Fordham road, Borough of The Bronx.

This application was presented to the Board at the meeting of June 22, 1911, and referred to the Bureau of Franchises.

The Secretary presented the following:

To the Honorable Board of Estimate and Apportionment of the City of New York, 277 Broadway, New York City.

Gentlemen—On July 1, 1910, your honorable Board passed a resolution, which was approved by the Mayor on July 5, 1910, granting permission to The New York Central & Hudson River Railroad Company to construct a spur track across Harlem River Terrace about 850 feet north of Fordham road, Borough of The Bronx. This spur track was constructed for the convenience of the Bartlett-Haywood Company, which Company has a contract with the Consolidated Gas Company for the construction of a large gas holder near University Heights. The consent granted by the Board of Estimate and Apportionment was for one year and will expire on July 5, 1911, and although all due diligence has been exercised, the contractor will be unable to finish his work until some time in 1912.

It is, therefore, respectfully requested that the permission to construct and use this spur track be extended for one year from July 5, 1911, or until July 5, 1912, under such conditions as your honorable Board may see fit to impose.

Very respectfully yours,

THE NEW YORK CENTRAL AND HUDSON RIVER RAILROAD COMPANY, by Alex. S. Lyman, General Attorney.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, June 26, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—A resolution was adopted by the Board of Estimate and Apportionment on July 1, 1910, and approved by the Mayor July 5, 1910, granting permission to the New York Central and Hudson River Railroad Company to construct, maintain and operate temporarily a spur track diagonally across Harlem River terrace at a point about 850 feet north of the northerly line of Fordham road, in the Borough of The Bronx, from the railroad of the petitioner on the westerly side of the terrace to property of the Consolidated Gas Company on the easterly side. The track was to be used for the convenience of the Bartlett-Haywood Company in conveying materials for the construction of a large gas tank.

Section 1 of the consent provided that it should not extend beyond a term of one year from the date of approval by the Mayor. The Railroad Company has now presented a petition to the Board reciting that although due diligence has been exercised, the contractor will be unable to finish the gas tank before the expiration of the consent on July 5, 1911, and permission is, therefore, requested to continue to maintain and use the track for a further period of one year to July 5, 1912.

The resolution of the Board authorizing this track was adopted pursuant to an opinion of the Corporation Counsel, wherein it was held that, in view of the fact that Harlem River terrace was not physically open or in use, public interest would be served in the speedy erection of the tank, and the Board could properly give its consent to the temporary construction and use of the spur.

I caused an examination to be made and it was found that the terrace has not yet been graded, and it is in no condition to be opened to public travel.

A copy of the petition was forwarded to the President of the Borough of The Bronx, with a request to advise this office if Harlem River terrace is to be physically opened before July 5, 1912, or if there are any other reasons why the track should not be permitted to continue in existence and use until said date. In a reply dated June 19, 1911, the Borough President states there are no objections to the granting of the request.

As there are no objections to the continued existence of the track, and as it would appear that the terrace will not be opened to public use for some time, I would suggest that the request be granted, and the resolution of July 1, 1910, be amended so as to continue the permission in full force and effect for another year to July 5, 1912.

A resolution so providing is herewith submitted for adoption.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The Board of Estimate and Apportionment did by resolution adopted July 1, 1910, and approved by the Mayor July 5, 1910, grant permission to the New York Central and Hudson River Railroad Company to construct, maintain and operate temporarily a spur track diagonally across Harlem River terrace at a point about 850 feet north of the northerly line of Fordham road, in the Borough of The Bronx, for the purpose of facilitating the conveyance of materials from the tracks of the said company on the westerly side of Harlem River terrace across said Harlem River terrace to property belonging to the Consolidated Gas Company, the said materials to be used in the erection of a gas tank for the said gas company; and

Whereas, Section 1 of the aforesaid resolution provides as follows:

"1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, or its successors in authority, and shall be revocable upon thirty (30) days' notice in writing to said grantee, its successors or assigns, but in no case shall said consent extend beyond a term of one year from the date of the approval of this consent by the Mayor, and thereupon all rights of the said New York Central and Hudson River Railroad Company, its successors or assigns, in and upon said Harlem River terrace by virtue of this consent shall cease and determine. The said consent shall terminate upon the completion of the construction of the tank."

—and

Whereas, The New York Central and Hudson River Railroad Company has presented a petition to the Board of Estimate and Apportionment for permission to continue to maintain and operate the said spur track for another year to July 5, 1912; now, therefore, be it

Resolved, That section 1 of the aforesaid consent be and the same is hereby amended to read as follows:

"1. The said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, or its successors in authority, and shall be revocable upon thirty (30) days' notice in writing to said grantee, its successors or assigns, but in no case shall said consent extend beyond July 5, 1912, after which date all rights of the said New York Central and Hudson River Railroad Company, its successors or assigns in and upon said Harlem River terrace by virtue of this consent shall cease and determine. The said consent shall terminate upon the completion of the construction of the gas tank."

—and be it further

Resolved, That the New York Central and Hudson River Railroad Company shall pay into the City Treasury within sixty (60) days of the approval of this resolution by the Mayor the sum of one hundred dollars ($100) as compensation for the privilege hereby granted; and be it further

Resolved, That this consent shall not become operative unless and until the said New York Central and Hudson River Railroad Company shall duly execute an instrument in writing to the satisfaction of the Board of Estimate and Apportionment accepting such consent and file the same in the office of said Board within thirty (30) days of the date of the approval of this resolution by the Mayor, wherein said Company shall promise, covenant and agree that the consent of the Board of Estimate and Apportionment so given to the extension of time for the use of the temporary spur track shall not in any wise change, alter or amend any of the terms, conditions and requirements in the original consent granted by resolution adopted by the Board of Estimate and Apportionment July 1, 1910, and approved by the Mayor July 5, 1910, fixed and contained, and which said consent and all the terms, conditions and requirements thereof shall remain in full force and effect as herein and hereby expressly modified.

And the said Company shall promise, covenant and agree in said instrument to hold The City of New York harmless from all loss or damage to persons or property which may result from the construction, maintenance or use of the railroad track hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

R. J. Dean & Company.

The Secretary presented the following:

Department of Finance, City of New York, William A. Prendergast, Comptroller, March 6, 1911.

Joseph Haag, Esq., *Secretary, Board of Estimate and Apportionment:*

Sir—On March 2, this Department rendered a bill to R. J. Dean & Co., for the privilege of maintaining and using a pipe from 607 to 610 Greenwich street, for the period beginning March 2, 1911, and ending March 2, 1912. In reply thereto a communication was received from F. C. Linde Company, successors to R. J. Dean & Company, in which they state that they are no longer interested in the pipe, as they discontinued its use and installed electricity in April, 1910.

Will you be good enough to refer this to the Bureau of Franchises for investigation and report. Respectfully, E. D. FISHER, Deputy Comptroller.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, June 23, 1911.

HON. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—Under date of March 6, 1911, the Department of Finance addressed a communication to the Board of Estimate and Apportionment stating that in response to a bill rendered to R. J. Dean & Co., for the privilege of maintaining and using a pipe from No. 607 to No. 610 Greenwich street, in the Borough of Manhattan, for the year ending March 2, 1912, a reply was received from F. C. Linde Company stating that use of the pipe was discontinued in April, 1910, and the Department of Finaance requested that the matter be referred to this Bureau for investigation and report.

I caused an examination to be made which revealed that the pipe was installed by R. J. Dean & Co., under the authority of a resolution adopted by the Board of Aldermen on January 12, 1892, which became effective on January 23, 1892. Pursuant to said resolution the Commissioners of the Sinking Fund on March 2, 1892, fixed the compensation for the privilege at the sum of $32 per annum and required the filing of a bond with the Comptroller. In accordance with such requirement a bond dated March 3, 1892, for $1,000, and signed by Robert J. Dean and Alvin J. Donally was filed with the Department of Finance.

From information received from F. C. Linde Company it appears that 607 and 610 Greenwich street were occupied by R. J. Dean & Co. under lease and the said Company went into the hands of a receiver some years ago. F. C. Linde Company then leased said premises and made use of the said pipe.

Bills were annually rendered by the Finance Department to R. J. Dean & Co. at the said address and as F. C. Linde Company were using the pipe, checks were returned to the Comptroller in payment of the said bill. The said last-mentioned company has now no further desire to use the pipe and disclaims any ownership.

Under date of May 2, 1911, I fully advised the receivers for R. J. Dean & Co. of the facts and requested that, in accordance with the customary procedure in similar cases, application be made to the Board of Estimate and Apportionment for the revocation of the consent and the cancellation of the annual charge and of the bond filed. No such application has been presented and one of the receivers has informed me that no action will be taken in the matter as there is no money available for the removal of the pipe from the street.

In view of the fact that the pipe is of no further use to R. J. Dean & Co., the grantee, and F. C. Linde Company, the present occupant of the premises does not desire to use the pipe, the resolution of the Board of Aldermen granting the consent should be revoked and the receivers for R. J. Dean & Co. required to remove the pipe from the street.

A resolution is herewith submitted for adoption revoking the consent and requiring the receivers to remove the pipe by September 1, 1911. The resolution further provides in case the receivers should fail to remove the pipe by the date specified, that the President of the Borough of Manhattan cause the pipe to be removed at the expense of the receivers, and in the event that the costs of removal be not paid by the receivers, that the Corporation Counsel take action for the collection of such costs. Upon the completion of the work of removing the pipe by the receivers or, if removed by the City, upon the receipt of the costs of removal, the resolution authorizes the Comptroller to cancel the bond on file in his office.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, a resolution was adopted by the Board of Aldermen on January 12, 1892, reading as follows:

"Resolved, That permission be and the same is hereby given to R. J. Dean & Company to lay a six (6) inch W. I. pipe, enclosing a three and one-half (3½) inch iron pipe for conducting steam from Nos. 607 to 610 Greenwich street, between Clarkson and Leroy streets, as shown on the accompanying diagram, upon payment to the city, as compensation for the privilege, such amount as may be determined an equivalent by the Commissioners of the Sinking Fund, provided the said R. J. Dean & Company shall stipulate with the Commissioner of Public Works to save the city harmless from any loss or damage that may be occasioned by the exercise of the privilege hereby given, during the progress or subsequent to the completion of the work of laying said pipe, the work to be done at their own expense, under the direction of the Commissioner of Public Works; such permission to continue only during the pleasure of the Common Council," which duly became effective on January 23, 1892, and

Whereas, The Commissioners of the Sinking Fund on March 2, 1892, fixed the compensation for the privilege at the sum of thirty-two dollars per annum and provided that the grantee should file a satisfactory bond with the Comptroller, and

Whereas, in accordance with such provision R. J. Dean & Company filed a bond for one thousand dollars in the Department of Finance and the compensation for the privilege has been paid to March 2, 1911, and

Whereas, it would appear that R. J. Dean & Company no longer occupies the said premises and that use of the pipe was discontinued in April, 1910; now, therefore, be it

Resolved, That the said resolution be and it hereby is rescinded and be it further

Resolved, That John J. Lenehan and William H. Corbitt, of 71 Nassau street, receivers of R. J. Dean & Company, be and they hereby are directed to entirely remove the said pipe from within the lines of Greenwich street on or before September 1, 1911, under the supervision and to the satisfaction of the President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity, and be it further

Resolved, That the said officials be and they hereby are requested to advise this Board when the said pipe has been removed and the street pavement properly restored, and be it further

Resolved, That should the receivers for R. J. Dean & Company fail or neglect to remove said pipe by the date specified, the President of the Borough of Manhattan be and he hereby is directed to remove the same and restore the street pavement to its original condition and advise the Board of the date of completion of such work and of the cost of the same and the said official be and he hereby is requested in such event to make formal demand upon the receivers for R. J. Dean & Company for the payment of such costs and advise the Board within thirty (30) days of such demand whether or not the same has been paid, and in the event of the said receivers failing or neglecting to make payment of the cost of the said work, that the Corporation Counsel be and he hereby is requested to take such action as may be necessary for the collection of such costs, and be it further

Resolved, That upon the completion of the work of removal of the pipe and the restoration of the street pavement by the said receivers, or upon the receipt by the City of payment of the costs of removal, as hereinabove provided, the Comptroller be and he is hereby authorized to cancel the bond of one thousand dollars hereinabove mentioned.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Hardman, Peck & Company.

In the matter of the application of Hardman, Peck & Company for a revocation of the resolution adopted by the Board of Aldermen, July 14, 1903, approved by the Mayor July 20, 1903, granting Hardman, Peck & Company permission to install, maintain and use a pipe under and across West 49th street, connecting premises 636-640 with 635-637 West 49th street, Borough of Manhattan.

This application was presented to the Board at the meeting of April 27, 1911.

The Secretary presented the following:

April 18, 1911.

To the Honorable, the Board of Estimate and Apportionment of The City of New York:

Gentlemen—Your petitioner, Hardman, Peck & Co., a domestic corporation, respectfully petition your honorable Board to revoke and cancel a franchise granted by authority of a resolution of the Board of Aldermen July 14, 1903, and approved by the Mayor July 20, 1903, by which franchise your petitioner was authorized to carry a pipe for the purpose of conveying steam under and across the highway or street in West 49th street, in the Borough of Manhattan, from 636 to 640 West 49th street to 635 to 637 West 49th street. That your petitioners have no further use for said pipe and desire that the franchise hereinbefore referred to be revoked and cancelled and that the annual charge of sixty dollars ($60) per annum for said franchise and the bond given by your petitioner and filed with the Comptroller be cancelled, vacated and discharged. Yours respectfully,

HARDMAN, PECK & CO., by Carl E. Peck, Vice-President.

(corporate seal)

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 28, 1911.

Hon. William J. Gaynor, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Hardman, Peck & Company presented a petition dated April 18, 1911, to the Board of Estimate and Apportionment for the revocation of a resolution, adopted by the Board of Aldermen on July 14, 1903, and approved by the Mayor, July 20, 1903, granting permission to the petitioner to install, maintain and use a pipe for the conveyance of steam under and across West 49th street, in the Borough of Manhattan, connecting its premises, known as Nos. 636-640 with Nos. 635-637 West 49th street. The petition further requested the cancellation of the annual charge of $60 for the privilege and of the bond filed with the Comptroller to protect the City from any loss or damage due to the said pipe.

At the meeting of the Board, held April 27, 1911, the matter was referred to this office for investigation and report.

Inquiry at the Finance Department revealed that the annual charge for the privilege has been paid into the City Treasury for the year, ending July 29, 1911, and a bond of one hundred and twenty dollars is on file in said Department.

In accordance with the procedure in all similar cases the petitioner was notified to remove the pipe from within the lines of West 49th street, under the supervision and direction of the President of the Borough and the Commissioner of Water Supply, Gas and Electricity. I am now in receipt of communication from said officials, dated respectively June 17 and June 28, 1911, stating that the pipe has been entirely removed from within the lines of the street and the pavement restored to its original condition.

I would therefore recommend that the resolution of the Board of Aldermen, authorizing the installation of the said pipe be revoked, and the Comptroller be authorized to cancel the bond filed in his office.

A resolution is herewith submitted for adoption, in accordance with the hereinabove contained suggestion. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The Board of Aldermen adopted a resolution on July 14, 1903, reading as follows:

"Resolved, That permission be and the same hereby is given to Hardman, Peck & Co. to lay a 10-inch cast-iron pipe, as shown on the accompanying diagram, for the purpose of conducting steam under and across the carriageway of West 49th street, connecting their buildings, Nos. 636 to 640, on the south side of said street, with their buildings, Nos. 635 and 637, on the north side of said street; provided that the said Hardman, Peck & Co. shall pay to The City of New York, as compensation for the privilege, such amount as may be determined as an equivalent therefor by the Board of Estimate and Apportionment; and provided that said pipe shall not be laid more than three feet below the surface of the carriageway; and provided, further, that the said Hardman, Peck & Co. shall stipulate with the President of the Borough of Manhattan to save The City of New York harmless from any loss or damage that may be occasioned during the progress or subsequent to the completion of the work of laying said pipe; the work to be done at the expense of the said Hardman, Peck & Co. under the direction of the President of the Borough of Manhattan, such permission to continue only during the pleasure of the Board of Aldermen."

—which was approved by the Mayor July 20, 1903, and

Whereas, Pursuant to said resolution, the Board of Estimate and Apportionment on July 29, 1903, fixed the compensation for the privilege at the sum of sixty dollars per annum, and provided that the grantee should file a satisfactory bond with the Comptroller, and

Whereas, In accordance with such provision Hardman, Peck & Co. filed a bond, dated August 4, 1903, for one hundred and twenty dollars in the Department of Finance and the compensation for the privilege has been paid to July 29, 1911, and

Whereas, The President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity have certified to the Board of Estimate and Apportionment that the said pipe has been removed from within the lines of West 49th street, and the street pavement satisfactorily restored; now, therefore, be it

Resolved, That the said resolution be and the same is hereby rescinded and be it further

Resolved, That the Comptroller be and he hereby is authorized and directed to cancel the bond of one hundred and twenty dollars hereinabove mentioned, and be it further

Resolved, That this resolution shall not become effective unless and until Hardman, Peck & Co. shall execute an instrument in writing, releasing the City of New York from any and all claims of any kind, character or description whatsoever held or claimed to be held under the terms and conditions of the aforesaid consent, and agreeing to quitclaim, waive and surrender to the City of New York any and all rights and privileges in and upon said West 49th street, in the Borough of Manhattan, held or claimed to be held under and by virtue of said consent and file the same with the Board of Estimate and Apportionment.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

American Ice Company; Ice Manufacturing Company.

The Secretary presented the following:

To the Honorable Board of Estimate and Apportionment of The City of New York:

Ice Manufacturing Company, a corporation organized and existing under the laws of the State of New York, and American Ice Company, a corporation organized and existing under the laws of the State of New Jersey, respectfully petition your Board and show and allege as follows:

I.

On February 5, 1909, a resolution was adopted by your Board, which was duly approved by the Hon. George B. McClellan on February 8, 1909, granting to the Seventieth Street Hygeia Ice Company, a New York corporation, the consent of the corporation of The City of New York to the installation, maintenance and use of a 16-inch iron pipe under and along East 70th street and Exterior street, in the Borough of Manhattan, City of New York, and connecting the property of said Seventieth Street Hygeia Ice Company situate on the northerly side of East 70th street, distant two hundred and fifteen (215) feet west of the westerly line of Exterior street with the East River, to be used for the purpose of obtaining salt water from the East River. The full particulars and conditions of said privilege and consent are more particularly shown in such resolution, which is "Approved Resolution Number 7 of the Year 1909." The said pipe line was duly constructed, and was thereafter and up to August 25, 1910, used and operated by the Seventieth Street Hygeia Ice Company in connection with its plant as aforesaid, and such pipe line was and is a necessary appurtenant to the said plant and to the operation thereof in the manufacture of ice.

II.

On or about August 25, 1910, the Seventieth Street Hygeia Ice Company sold to your petitioner, the American Ice Company, and the latter company purchased all the plant and property of the Seventieth Street Hygeia Ice Company situated as aforesaid, for the purpose and with the intention of continuing therein the manufacture of ice. On said August 25, 1910, the Seventieth Street Hygeia Ice Company and the American Ice Company presented to your Honorable Board a joint petition for the consent of your Board to the assignment and transfer of the aforementioned consent and privilege to the said American Ice Company, and such proceedings were thereafter had that your Board, at a meeting held on September 30, 1910, by "Approved Resolution Number 50 of the Year 1910," approved by the Mayor, October 10, 1910, consenting to such assignment on certain terms and conditions therein set forth, which terms and conditions your petitioners represent have been fulfilled and in all respects duly complied with. Thereafter the American Ice Company continued the manufacture of ice upon said premises.

III.

On or about May 5, 1911, the American Ice Company sold to your petitioner, Ice Manufacturing Company, and the latter company purchased all of the plant and property of the said American Ice Company, formerly of the Seventieth Street Hygeia Ice Company, situated as aforesaid, for the purpose and with the intention of continuing therein the manufacture of ice.

IV.

Your petitioner, Ice Manufacturing Company, desires the consent of your honorable Board to a transfer of such privilege by the American Ice Company, to Ice Manufacturing Company, as the salt water pipe is necessary to enable the Ice Manufacturing Company to continue to carry on the business of the manufacture of ice, and it is willing to comply with any and all conditions expressed in the original privilege granted to Seventieth Street Hygeia Ice Company, and in the consent to the transfer of such privilege to the American Ice Company and as may be required by your Honorable Board in order to obtain such consent.

V.

Your petitioner, the American Ice Company, joins in this application and will consent to the transfer of said privilege and will do any act that may be required by your Honorable Board for the purpose of procuring its consent to such transfer.

VI.

Your petitioners aver that *Ice Manufacturing Company* is ready, able and willing to comply with all the conditions of the said franchise.

Dated New York, June 15, 1911.

AMERICAN ICE COMPANY, Petitioner,
[Seal.] By Wesley M. Oler, President.

ICE MANUFACTURING COMPANY, Petitioner,
[Seal.] By Thos. Pettigrew, President.

City of New York, State of New York, County of New York, ss.:

On this 26th day of June, 1911, before me personally appeared Wesley M. Oler, to me known, who, being by me duly sworn did depose and say that he resides in Larchmont, New York; that he is the president of the American Ice Company, one of the corporations described in and which executed the foregoing petition; that he knew the seal of said corporation; that the seal affixed to said instrument was such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by the like order.

EDWARD J. REILLY, Notary Public, New York County, No. 25.
[Seal.] Certificate filed in Kings County.

City of New York, State of New York, County of New York, ss.:

On this 26th day of June, 1911, before me personally appeared Thomas Pettigrew, to me known, who, being by me duly sworn, did depose and say that he resides in The City of New York; that he is the president of the Ice Manufacturing Company, one of the corporations described in and which executed the foregoing petition; that he knew the seal of said corporation; that the seal affixed to said instrument was such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by the like order.

EDWARD J. REILLY, Notary Public, New York County, No. 25.
[Seal.] Certificate filed in Kings County.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 26, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—The Board of Estimate and Apportionment adopted a resolution on February 5, 1909, which was approved by the Mayor February 8, 1909, granting permission to the Seventieth Street Hygeia Ice Company, a domestic corporation, and the owner of certain property on the northerly side of East 70th street distant two hundred and fifteen feet west of the westerly line of Exterior street, in the Borough of Manhattan, to install, maintain and use a sixteen-inch pipe under and along East 70th street and across said Exterior street, from its premises to the East River, for the purpose of obtaining salt water from the river.

In accordance with section 15 of the said resolution, the Company filed its certificate of acceptance and subsequently completed the installation of the pipe on June 21, 1909. Pursuant to the terms and conditions of said consent, the grantee also deposited a security fund of one thousand dollars with the Comptroller, and has paid into the City Treasury the annual sum of five hundred and eighty-six dollars, as required by section 2 of the consent.

Section 4 of the consent provided as follows:

"The consent hereby given is for the exclusive use of the grantee and shall not be assigned either in whole or in part or leased or sublet in any manner nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever either by the acts of the said grantee, its successors or assigns or by operation of law without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment or its successors in authority."

The Seventieth Street Hygeia Ice Company and the American Ice Company presented a joint petition to the Board at the meeting held September 16, 1910, for its consent to a transfer of the privilege by the Seventieth Street Hygeia Ice Company to the American Ice Company. A resolution was adopted by the Board on September 30, 1910, and approved by the Mayor October 10, 1910, granting the requested consent, and pursuant to said resolution, the American Ice Company filed an agreement with the Board of Estimate and Apportionment on October 17, 1910.

The Ice Manufacturing Company, a domestic corporation, and the American Ice Company have now presented a joint petition dated June 15, 1911, to the Board for its consent to the transfer by the said American Ice Company of all its right, title and interest in and to the said pipe to the Ice Manufacturing Company. The petition recites that the said Ice Manufacturing Company on or about May 5, 1911, purchased the plant of the American Ice Company at the location stated, with the intention of continuing therein the manufacture of ice and the right to use the salt water pipe is necessary to carry on the business.

There would seem to be no objection to offer to the transfer and assignment by the American Ice Company of its right, title and interest in the said pipe, as proposed. In case the Board should see fit to grant its consent, the assignee should be required to execute an instrument in writing and file the same with the Board of Estimate and Apportionment, wherein it shall promise and agree to abide by and perform each and all of the terms and conditions of the resolution of February 5, 1909, and also agree to pay to the Comptroller within sixty days of the approval of the consent by the Mayor the sum of twenty-five dollars to cover the cost of report and publication.

The Comptroller should also be authorized to return the security of one thousand dollars deposited with him by the American Ice Company after the Ice Manufacturing Company has complied with the terms and conditions of the consent by depositing a security fund of one thousand dollars and filing the above mentioned agreement with the Board.

A form of resolution in accordance with the hereinabove contained suggestions is herewith submitted for adoption. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, By resolution adopted by the Board of Estimate and Apportionment February 5, 1909, and approved by the Mayor February 8, 1909, permission was granted to the Seventieth Street Hygeia Ice Company, a domestic corporation, to install, maintain and use a sixteen-inch cast-iron pipe from its premises on the northerly side of East 70th street, in the Borough of Manhattan, distant about 215 feet west of the westerly line of Exterior street under and along said East 70th street and across said Exterior street to the East River, for the purpose of conveying salt water to its premises; and

Whereas, Section 4 of said consent provided as follows:

"The consent hereby given is for the exclusive use of the grantee and shall not be assigned either in whole or in part or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever either by the acts of the said grantee, its successors or assigns or by operation of law without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment or its successors in authority."

—and

Whereas, In response to a joint petition dated August 21, 1910, from the Seventieth Street Hygeia Ice Company and the American Ice Company, the Board of Estimate and Apportionment adopted a resolution on September 30, 1910, which was approved by the Mayor October 10, 1910, granting its consent to the transfer by the Seventieth Street Hygeia Ice Company of all its right, title and interest in and to the said pipe to the American Ice Company, the last mentioned Company having purchased the property of the said Seventieth Street Hygeia Ice Company; and

Whereas, The American Ice Company and the Ice Manufacturing Company, a corporation organized and existing under the laws of the State of New York, have presented a joint petition dated June 15, 1911, to the Board of Estimate and Apportionment for its consent to the transfer by the American Ice Company of all its right, title and interest in and to the said pipe to the Ice Manufacturing Company, the said last mentioned Company having purchased the said property of the American Ice Company on East 70th street and the said pipe being necessary for the continuance of the business of the manufacture of ice carried on in said property; now, therefore, be it

Resolved, That the consent of the corporation of The City of New York be and the same is hereby given to the assignment of the interest of said American Ice Company in and to the aforesaid pipe and its right to use the same to the Ice Manufacturing Company, provided, however, that the said assignee shall execute an instrument in writing, wherein it shall accept the terms and conditions contained in the resolution adopted by the Board of Estimate and Apportionment on February 5, 1909, and approved by the Mayor on February 8, 1909, and agree to conform to, abide by and perform all of such terms and conditions as if such consent had been originally granted to the said Ice Manufacturing Company, and file said instrument with the Board of Estimate and Apportionment within sixty (60) days of the date of the approval of this consent by the Mayor.

And said Ice Manufacturing Company shall further agree to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the said pipe, and shall pay to the Comptroller of The City of New York within sixty (60) days after the approval of this consent by the Mayor the sum of twenty-five dollars ($25) to cover the cost of examination and publication; and be it further

Resolved, Should the said Ice Manufacturing Company accept the consent hereby granted and deposit a security fund of one thousand dollars, as required by the terms and conditions of the consent heretofore granted to the Seventieth Street Hygeia Ice Company, the Comptroller shall and he hereby is authorized to return to the American Ice Company the security deposit of one thousand dollars deposited with him by the said American Ice Company for the faithful performance of the terms and conditions of the consent, pursuant to the resolution adopted by the Board of Estimate and Apportionment September 30, 1910, and approved by the Mayor October 10, 1910, authorizing the transfer by the Seventieth Street Hygeia Ice Company of all its right, title or interest in and to the said pipe to the American Ice Company.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Greenhut-Siegel Cooper Company.

In the matter of the application of Greenhut-Siegel Cooper Company for permission to construct, maintain and use a conduit, under and across 6th avenue, at a point about 69 feet north of the northerly line of 18th street, Borough of Manhattan, connecting the properties of the petitioner on opposite sides of said avenue, for the purpose of conveying electric current between said premises.

This application was presented to the Board at the meeting of June 22, 1911, and referred to the Bureau of Franchises.

The Secretary presented the following:

In the matter of the application of Greenhut-Siegel Cooper Co. to place an electric conduit across 6th avenue.

To the Board of Estimate and Apportionment of The City of New York:

The petition of Greenhut-Siegel Cooper Co. respectfully shows:

1. That your petitioner is a corporation duly organized and existing under and by virtue of the laws of the State of New York.

2. That your petitioner was formed by the consolidation of Greenhut & Co. and Siegel Cooper Co., domestic corporations, and has acquired all the property and business of each of said Corporations.

3. That your petitioner is lessee of the entire block front located on the east side of 6th avenue, between 18th and 19th streets, Borough of Manhattan, City of New York, and the entire block front on the west side of 6th avenue, between 18th and 19th street, Borough of Manhattan, City of New York. That your petitioner has a large building on each side of said avenue between the streets hereinabove

mentioned, in which buildings it conducts its business, which is that of a general retail department store.

4. That it will be of great advantage and benefit to your petitioner to connect its respective stores by means of an electric conduit (as shown on plans submitted herewith), running under and across 6th avenue, for the purpose of supplying electric light and power necessitated by the business of your petitioner to the respective stores occupied by it, and to enable your petitioner to furnish such light and power, by operating only one electric plant at certain times. That in order to accomplish this purpose, it is necessary to place and maintain a conduit under and across 6th avenue. The dimensions and location of said conduit as hereinafter described, are more particularly shown on a plan of said conduit submitted herewith and made a part hereof. That the area of the cross section of said conduit is 34 inches wide and 11 inches in height; that the location of same is 115 feet south of the building line on the southerly side of 19th street, and 69 feet north of the building line on the northerly side of 18th street (the above distances are measured from the centre of the conduit).

Wherefore your petitioner respectfully prays that a permit may be granted it to place and maintain the aforesaid conduit as hereinabove described and shown on plan of same submitted herewith.

Dated New York, June 15, 1911.

GREENHUT-SIEGEL COOPER CO.,
(Corporate Seal.) By Joseph B. Greenhut, President.

State of New York, County of New York, ss.:

Joseph B. Greenhut, being duly sworn, says that he is an officer, to wit: the President of the Greenhut-Siegel Cooper Co., the petitioner herein; that he has read the foregoing petition and knows the contents thereof; that the same is true of his own knowledge, except as to the matters therein stated to be alleged on information and belief, and as to these matters he believes it to be true.

Deponent further says that the reason why this verification is not made by the petitioner is because the petitioner is a corporation, and that deponent is an officer thereof and is acquainted with the facts set forth in the petition herein.

JOSEPH B. GREENHUT.

Sworn to before me this 15th day of June, 1911.

William L. Boyle, Notary Public, New York County.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 26, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—The Greenhut-Siegel Cooper Company has presented a petition dated June 15, 1911, to the Board of Estimate and Apportionment for permission to construct, maintain and use a concrete conduit under and across 6th avenue at a point about 69 feet north of the northerly line of 18th street, in the Borough of Manhattan, connecting its properties on opposite sides of the avenue, for the purpose of conveying electric current between the said properties.

The petition recites that the Company is a domestic corporation formed by the consolidation of the Greenhut Company and Siegel Cooper Company and holds the said properties under lease. A general retail department store business is carried on by the petitioner in the premises on both sides of 6th avenue, and the proposed conduit will enable the Company to operate only one electric plant at certain times.

At the meeting of the Board held June 22, 1911, the petition was referred to the Bureau of Franchises for investigation and report.

Copies of the petition and accompanying plan were sent to the President of the Borough of Manhattan and to the Commissioner of Water Supply, Gas and Electricity, with a request that examinations be made by the various bureaus having jurisdiction with a view to ascertaining if there are any objections to the proposed conduit or any particular conditions necessary to be incorporated in the form of consent used by the Board for similar privileges.

In replies dated respectively June 19 and June 20, 1911, said officials have stated that there are no objections to the conduit and no particular conditions necessary to be inserted in the form of consent.

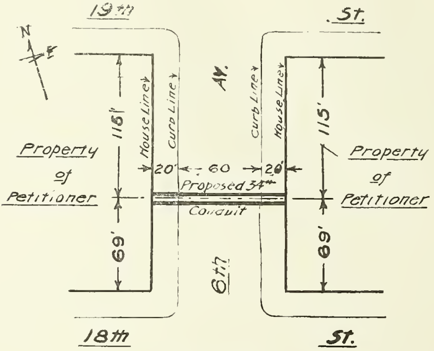
An examination of the plans submitted with the petition shows that the proposed conduit is designated to pass along the concrete flooring of the Hudson and Manhattan Railroad under 6th avenue, and at the request of this Bureau, the petitioner has filed a copy of the consent of the said Railroad Company to the installation of the conduit through its railroad.

As there are no objections to the proposed conduit, I can see no good reason why the requested permission should not be given should the Board see fit to do so. In such case I would suggest that consent be granted only during the pleasure of the Board of Estimate and Apportionment, but in no case to extend beyond a period of ten (10) years from the date of the approval of the consent by the Mayor and revocable upon sixty (60) days' notice in writing, and that it be made a condition of the consent that a security deposit in the sum of one thousand dollars ($1,000) be required, said deposit to be in the form of either cash or securities to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

The proposed conduit is to be 34 inches wide and 11 inches high, almost twice as large as a 16-inch pipe, and its length between building lines is 100 feet. On the basis of charge heretofore fixed by the Board for private pipes in the City streets, viz.: $2 per linear foot for pipes 100 feet in length and not over 16 inches in diameter, the charge for the privilege should be $372 per annum. Such sum should be paid into the City Treasury in advance on November 1 of each year.

It has been made a condition of the resolution herewith submitted that the conduit be completed by November 1, 1911. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.



Plan of
Proposed Electric Conduit
for
Greenhut-Siegel Cooper Co.

BUREAU OF FRANCHISES

The following was offered:

Whereas, Greenhut-Siegel Cooper Company has presented a petition dated June 15, 1911, to the Board of Estimate and Apportionment, for its consent to the construction, maintenance and use of a concrete conduit under and across 6th avenue, between 18th and 19th streets in the Borough of Manhattan, connecting the petitioner's property on opposite sides of said 6th avenue, for the purpose of conveying electric current between said properties; now, therefore, be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to Greenhut-Siegel-Cooper Company, a domestic corporation, and the lessee of certain properties on opposite sides of 6th avenue, between 18th and 19th streets, in the Borough of Manhattan, to construct, maintain and use a concrete conduit under and across said 6th avenue at a point about 69 feet north of the northerly line of 18th street, for the purpose of conveying electric current for light and power purposes between the said properties, for the exclusive use of the petitioner and for no other purpose, all as shown on the plan accompanying the application and entitled:

"Plan showing location of Proposed Electric Conduit to be constructed in 6th avenue, Borough of Manhattan, to accompany application dated June 15, 1911, of Greenhut-Siegel Cooper Co., to the Board of Estimate and Apportionment, City of New York,"

—and signed J. B. Greenhut, president, a copy of which is annexed hereto and made a part hereof upon the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, the annual sum of $372. Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—

(a) Its construction, maintenance and removal.

(b) The protection of all structures which shall in any way be disturbed by its construction or removal.

(c) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(d) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(e) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(f) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of one thousand dollars ($1,000), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of one thousand dollars ($1,000), and in default of the payment thereof, the consent hereby given may be cancelled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before November 1, 1911, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Queens Borough Street Railway Company.

In the matter of the application of the Queens Borough Street Railway Company for a franchise to construct, maintain and operate a street surface railway, upon and along Van Alst avenue, from Franklin street to Winthrop avenue, in the First Ward, formerly Long Island City, Borough of Queens.

This petition was presented to the Board at the meeting of December 31, 1906, and after various reports and actions thereon, was referred back to the Bureau of Franchises on February 4, 1910.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, June 26, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—In 1906 the Queens Borough Street Railway Company was incorporated for the purpose of constructing a railway upon Van Alst avenue, from Franklin street to Winthrop avenue, in the First Ward (formerly Long Island City), in the Borough of Queens. The incorporators were those interested in the Rickert-Finley Realty Company, which Company owned a large tract of land between Van Alst avenue and the East River, throughout nearly the entire length of the proposed route, and the object of the railway was to make that section accessible by furnishing street railway facilities.

Under date of December 7, 1906, which is the same date on which the certificate of incorporation of the Company was filed in the office of the Secretary of State, the Company petitioned the Board for a franchise to construct, maintain and operate its railway. The petition was presented to the Board on December 31, 1906, and referred to the Bureau of Franchises for investigation and suggestions. Later the Board adopted a resolution fixing July 8, 1907, as the date for the preliminary public hearing, which hearing was duly held on that date. Nobody appeared in opposition, and only counsel for the Company appearing in favor. The matter was then referred to a Select Committee of the Board, consisting of the Comptroller, President of the Board of Aldermen, and President of the Borough of Queens.

On October 4, 1907, a report was presented containing a draft form of contract for the franchise, which report was referred to the Select Committee named above. This Committee never reported on the application, and on February 4, 1910, the matter was again referred to the Bureau of Franchises, together with other pending applications which had previously been referred to Select Committees, but not finally acted upon by the Board.

The counsel for the Company strongly objected to some of the conditions contained in the draft form of contract submitted by the Division of Franchises on October 4, 1907, and considerable correspondence and several conferences were held with the counsel of the Company in regard to the proposed contract. The matter was finally dropped by the Company, resulting in discontinuing of negotiations for the franchise. Recently, however, the attorney for the Company has again taken the matter up and submitted amendments to the contract, which, he stated, would be acceptable to the Company, provided the Board would grant the franchise in the amended form.

It is now over four years since the application was made to the Board, and the Realty Company has been unable to dispose of its property because of lack of transportation in that locality. The Company has spent large sums of money in laying out streets, setting curbs and laying sidewalks, which, of course, brings no return to the Company unless it can dispose of its property. Between Hoyt and Winthrop avenues, which embodies about four-fifths of the proposed route, there has been practically no development on either side of Van Alst avenue. At the northerly end of the route there exists the plant of the Astoria Light, Heat and Power Company, where there are a large number of employees, who have no railway facilities for reaching that point. The patronage of these employees is practically all that the Company has to look to at once. The southerly end of the proposed route is reached by a line of the

New York and Queens County Railway Company, which operates in Flushing avenue from points easterly to the Astoria Ferry. It will be necessary for passengers upon the proposed railway to pay two fares in order to reach other points in the Borough on the lines of the New York and Queens County Railway Company.

The Company has stated that it endeavored to influence the New York and Queens County Railway Company to extend its lines along Van Alst avenue, in order to furnish the transportation which is now sought. The Queens Company has steadfastly refused to make this extension or to apply for a franchise for the same, and for this reason it was necessary to organize the Company and file the petition under discussion.

Van Alst avenue is laid out on the City Map as 100 feet in width. The southerly portion—that is, between Franklin street and Hoyt avenue, a distance of about 950 feet—has been legally opened, and proceedings have been instituted for the acquisition of the remainder of the street covered by the route, though I understand title has not yet been vested.

A certificate of convenience and a necessity was granted the Company by the State Board of Railroad Commissioners on April 16, 1907. It will be necessary, however, under the present law to present a petition to the Public Service Commission for the First District for a certificate of approval of the franchise after it is obtained.

The conditions of the proposed grant to which the Company made the most objection, and which have been modified and embodied in a form of contract attached hereto, are as follows:

First. Rate of Fare—In the original draft it was recommended that the Company be permitted to charge a fare not exceeding two cents for a ride upon the proposed railway and a fare not exceeding five cents from any point on the proposed railway to any point on the lines of any other railway company, with which the Queens Borough Company may enter into a contract for interchange of transfers in the future. At the time this recommendation was made it was hoped that if the Company obtained a franchise and constructed the railway that traffic agreements would be made with the New York and Queens County Railway Company for interchange of transfers. This, however, the Company states, is a matter which the applicant cannot control, and has no assurance that the New York and Queens County Railway Company will enter into any such agreement. It is claimed, however, that the Company cannot operate upon this route, which is about 5,500 feet in length, for a fare of less than five cents per passenger, and that even at that rate of fare it would be impossible for the Company to carry enough passengers during the first years of operation to make the venture a financial success.

While I have not changed my views in relation to granting franchises for short lines, such as this, permitting the collection of a fare of five cents for each passenger, without transfer privileges, it appears that after four years those interested in this Company have been unable to obtain adequate transportation facilities by the company which practically controls the street surface railway facilities in the northerly portion of the Borough of Queens, and some effort should be made by the City to furnish such railway facilities. This Company being willing to furnish such facilities as is in its power, and being willing to invest its money in a property the financial success of which is so uncertain, I believe it should be given some consideration. It is possible that either the New York and Queens County Railway Company may subsequently acquire the property, in which case it can charge only a single fare of five cents from any point on the proposed railway to any point on any of its existing lines, or the applicant Company may secure further rights upon streets leading to terminal points, such as the Astoria Ferry or Queensboro Bridge, in which case the Company would be justified in charging a fare of five cents. Until this takes place, however, the only solution of the problem seems to be to permit this Company to construct its railway and charge the full fare of five cents. In the contract submitted herewith the Company is permitted to charge such fare.

Second. Term of Grant—The original contract provided for a term of fifteen years, with the privilege of renewal of a further term of ten years. This has been increased to a term beginning on the date upon which the contract is signed by the Mayor until June 10, 1934, with the privilege of renewal for a term of twenty-five years. The contract provides that the property in the street shall become the City's at the expiration of the term of the grant, and it has been argued that the Company cannot make the profit large enough to provide for a sinking fund within the short term originally proposed which will be sufficiently large to equal the value of the property.

In view of what has been already stated, it is recommended that the term of grant be increased. The object of fixing the expiration of the original term to June 10, 1934, is to make the grant coterminous with the grant to the New York and Queens County Railway Company on 2d avenue, so that if the New York and Queens County

Railway Company should acquire the proposed railway the limited term of franchises of the New York and Queens County Railway Company would expire on the same date and renewals of the same could be negotiated for at the same time.

Third. Compensation and Security Deposit—The initial payment and the minimum annual sums have been somewhat reduced from that first proposed. The percentage of gross receipts remain as previously recommended—that is, 3 per cent. for the first five years and 5 per cent. thereafter—those being the minimum percentages required by the Railroad Law. The minimum annual payments are fixed in most cases at amounts which will not exceed amounts due the City computed upon the basis of percentages of gross receipts required by the franchise. In any event, should the amounts due by the percentages of gross receipts exceed the minimum payments, the City will receive the larger amount. I see, therefore, no objection to reducing the minimum annual payments, and I believe that the initial payment which is now recommended is sufficient to show the good faith of the Company. The compensation required by the contract submitted herewith is as follows:

(a) Initial payment of $1,000.

(b) During the first term of five years 3 per cent. of the gross receipts to be not less than $250 per annum.

During the second term of five years 5 per cent. of the gross receipts to be not less than $350.

conditions of the contract.

Fourth. Watering of the Streets—The Company objected to the clause requiring the Company to water the street three times every twenty-four hours when the temperature is above 35 degrees Fahrenheit. This provision is used particularly where there is no pavement or only a macadam pavement. There is no pavement at the present time on Van Alst avenue, and no doubt the street should be watered frequently if street cars are operated therein. There seems to be no objection, however, to changing the clause to make it effective only on direction of the Borough President. A number of contracts have been drawn in this manner recently, and in view of that fact I see no reason why such an amendment should not be made in this case. The contract submitted herewith contains that amendment.

Fifth. Other Changes—The other changes which have been made in the contract are those which are necessary to comply with the form which is now used, the original contract being drawn about four years ago. These changes, however, do not materially affect the meaning of the contract, and do not need an explanation.

The counsel for the Company, Mr. Charles Benner, has stated that the Company will accept the contract with the amendments hereinbefore described, provided the Board will grant the franchise upon those conditions.

It is suggested that if the Board desires to grant the franchise in its present form, that it tentatively approve the contract and refer the same to the Corporation Counsel for his approval as to form and to incorporate therein such matter as he deems necessary to fully protect the interests of the City. After the contract has been approved by the Corporation Counsel, it is necessary under the law to fix a date for a final public hearing upon the same, due notice of which must be published in daily newspapers and in the City Record, and place the contract upon the minutes of the Board for at least thirty days. After this is done the Board may take final action authorizing the execution of the contract.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

Synopsis of Provisions of Contract.

Section 1. Grant.

Section 2. Conditions of grant.

First—Consent of property owners to be obtained.

Second—Term of grant.

Third—Compensation.

Fourth—Annual charges to be maintained throughout term of grant.

Fifth—Rights not exclusive.

Sixth—Rights not to be assigned.

Seventh—Property in streets to become City's at end of term.

Eighth—Commencement and completion of construction.

Ninth—Construction to be in the latest approved manner.

Tenth—Railway to be constructed under the control of the City authorities.

Eleventh—Motive power.

Twelfth—Company to place transmission wires underground upon six months' notice.

Thirteenth—Rate of fare.

Fourteenth—No freight cars to be operated.

Fifteenth—Fenders and wheelguards to be provided.

Sixteenth—Cars to be heated.

Seventeenth—Cars to be lighted.

Eighteenth—Headway of cars.

Nineteenth—Streets to be watered.

Twentieth—Snow and ice to be removed.

Twenty-first—Company to pave streets.

Twenty-second—Alteration of drainage or sewerage systems to be done at the expense of Company.

Twenty-third—Railway not to be in preference or in hindrance to public work.

Twenty-fourth—When grades or lines of streets are changed, Company must change tracks.

Twenty-fifth—Annual report to the Board.

Twenty-sixth—Company to keep accurate books of account.

Twenty-seventh—City may sue for forfeiture.

Twenty-eighth—Fine for inefficient public service.

Twenty-ninth—Company to assume all liability of damages.

Thirtieth—Security deposit.

Thirty-first—Grant to be subject to rights of property owners.

Thirty-second—Definition of words "notice" and "direction."

Thirty-third—Definition of "streets and avenues."

Thirty-fourth—If authority of Board or other officer is transferred, then such other board or officer shall act for City.

Section 3. Contract not to be construed as limiting jurisdiction of Public Service Commission.

Section 4. Railroad Law to be complied with.

Section 5. Company promises, covenants and agrees to abide by terms and conditions.

QUEENS BOROUGH STREET RAILWAY COMPANY.

Proposed Form of Contract.

This contract, made this day of , 19 , by and between The City of New York (hereinafter called the City), party of the first part, by the Mayor of said City, acting for and in the name of said City, under and in pursuance of the authority of the Board of Estimate and Apportionment of said City (hereinafter called the Board), and the Queens Borough Street Railway Company (hereinafter called the Company), party of the second part, witnesseth:

In consideration of the mutual covenants and agreements herein contained, the parties hereto do hereby covenant and agree as follows:

Section 1. The City hereby grants to the Company, subject to the conditions and provisions hereinafter set forth, the right and privilege to construct, maintain and operate a double track street surface railway with the necessary wires and equipment, for the purpose of conveying passengers and property in the Borough of Queens, in The City of New York, upon the following route, to wit:

Beginning at the intersection of Franklin street with Van Alst avenue; thence northeasterly in and upon Van Alst avenue to Winthrop avenue.

And to cross such other streets and avenues, named and unnamed, as may be encountered in said route.

The said route with turnouts, switches and crossovers, hereby authorized, is shown upon a map entitled: "Queens Borough Street Railway Company. Map and profile of the proposed line, First Ward, Borough of Queens, New York City," and signed by C. E. Finlay, President, and G. A. Roullier, Engineer; a copy of which is attached hereto, is to be deemed a part of this contract, is to be construed with the text thereof, and is to be substantially followed, provided that deviations therefrom and additional turnouts, switches and crossovers which are consistent with the foregoing description, and the other provisions of this contract may be permitted by resolution of the Board.

Section 2. The grant of this privilege is subject to the following conditions, which shall be complied with by the Company:

First—The consent in writing of the owners of half in value of the property bounded on said streets and avenues to the construction and operation of said railway shall be obtained by the Company within six (6) months from the signing of this contract by the Mayor, and a copy of such consents shall be filed with the Board within such time, or in the event that such consents cannot be obtained within such time, the Company shall within said six (6) months or within one (1) month thereafter, make application to the Appellate Division of the Supreme Court for the appointment of Commissioners in the manner provided by the Railroad Law to determine if said railway ought to be constructed; otherwise this grant shall cease and determine.

Second—The said right to construct, maintain and operate said railway shall be held and enjoyed by the Company from the date upon which this contract is signed by the Mayor until June 10, 1934, with the privilege of renewal of said contract for the further period of twenty-five (25) years, upon a fair revaluation of such right and privilege.

If the Company shall determine to exercise its privilege of renewal, it shall make application to the Board, or any authority which shall be authorized by law to act for the City in place of the Board. Such application shall be made at any time not earlier than two (2) years and not later than one (1) year before the expiration of the original term of this contract. The determination of the revaluation shall be sufficient if agreed to in writing by the Company and the Board, but in no case shall the annual rate of compensation to the City be fixed at a less amount than the sum required to be paid during the last year prior to the termination of the original term of this contract.

If the Company and the Board shall not reach such agreement on or before the day one (1) year before the expiration of the original term of this contract, then the annual rate of compensation for such succeeding twenty-five (25) years bound upon request of the other to enter into a written agreement with each other fixing the rate of such compensation at such amount as shall be reasonable, but in no case shall the annual rate so fixed be less than the sum required to be paid for the last year prior to the termination of the original term of this contract, and if the parties shall not forthwith agree upon what is reasonable, then the parties shall enter into a written agreement fixing such annual rate and at such amount as shall be determined by three disinterested freeholders selected in the following manner:

One disinterested freeholder shall be chosen by the Board; one disinterested freeholder shall be chosen by the Company; these two shall choose a third disinterested freeholder, and the three so chosen shall act as appraisers and shall make the revaluation aforesaid. Such appraisers shall be chosen at least six (6) months prior to the expiration of this original contract, and their report shall be filed with the Board within three (3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuations so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall, in any event, be less than the sum required to be paid for the last year of the original term of this contract. If in any case the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Third—The Company shall pay to the City for the privilege hereby granted, the following sums of money:

(a) The sum of one thousand dollars ($1,000) in cash within three (3) months after the date on which this contract is signed by the Mayor, and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five (5) years an annual sum, which shall in no case be less than two hundred and fifty dollars ($250), and which shall be equal to three (3) per cent. of its gross annual receipts if such percentage shall exceed the sum of two hundred and fifty dollars ($250).

During the second term of five (5) years an annual sum, which shall in no case be less than three hundred and fifty dollars ($350), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of three hundred and fifty dollars ($350).

During the third term of five (5) years an annual sum which shall in no case be less than five hundred dollars ($500), and which shall be equal to five (5) per cent. of its gross annual receipts if such percentage shall exceed the sum of five hundred dollars ($500).

During the fourth term of five (5) years an annual sum which shall in no case be less than six hundred dollars ($600), and which shall be equal to five (5) per cent. of its gross annual receipts, if such percentage shall exceed the sum of six hundred dollars ($600).

During the remaining term, expiring June 10, 1934, an annual sum which shall in no case be less than seven hundred dollars ($700), and which shall be equal to five (5) per cent. of its gross annual receipts if such percentage shall exceed the sum of seven hundred dollars ($700).

The gross annual receipts mentioned above shall be the gross receipts of the Company from all sources within the limits of the City.

The annual charges shall commence from the date upon which this contract is signed by the Mayor.

All annual charges as above shall be paid into the treasury of the City on November 1 of each year and shall be for the amount due to September 30 next preceding. Provided, that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and September 30 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before November 1 in each year for the year ending September 30 next preceding.

The annual charges herein provided are intended to include the percentage of gross receipts now required to be paid by railway companies to the City pursuant to the Railroad Law, as amended.

Any and all payments to be made by the terms of this contract to the City by the Company, shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Fourth—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the character of any other railway or railroad company providing for payment for railway or railroad rights or franchises at a different rate, and no assignment, lease or sublease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the routes mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sublease shall contain a covenant on the part of the assignee or lessee that the same is subject to all the conditions of this contract; and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fifth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual or other corporation a similar right or privilege upon the same or other terms and conditions over the route hereinbefore described.

The use of the railway constructed by the Company under this contract, including the tracks, wires and other equipment or any structures used in connection therewith, in streets and avenues hereinbefore described, shall be permitted by the Company, to any individual or corporation to which the City may have granted, or may hereafter grant, the right or privilege to use such streets and avenues for street railway purposes, upon payment of an annual sum by such individual or corporation to the Company, which shall equal the legal interest on such proportion of the actual cost of the construction of such railway and structures, and additions and betterments thereto, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same; and also such proportion of the cost of keeping the tracks and electrical equipment in repair, and the cost of additions and betterments thereto, such proportion of laying and repairing of pavement and removal of snow and ice and all other duties imposed upon the Company by the terms of this contract in connection with the maintenance or the operation of said railway so used, as the number of cars operated by such individual or corporation shall bear to the number of cars operated by the companies then using the same, together with the actual cost of the power necessary for the operation of the cars thereon of such individual or corporation. Provided, however, that if, in the opinion of the Company, the legal rate of interest upon the cost of such railway shall be an insufficient sum to be paid for the use of such tracks, it may appeal to the Board, and the Board may fix a percentage upon the cost to be paid to the Company, at a sum in excess of the legal rate of interest, if, in its opinion, such action is justified.

The Company shall not any time oppose, but shall, upon the request of the Board, consent to the construction or operation of any street surface railway which may necessitate the use of any portion of the railway which shall be constructed by the Company pursuant to this contract.

Sixth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company, or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any wise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Seventh—Upon the termination of this original contract, or if the same be removed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the tracks and equipments of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its tracks and other equipment constructed pursuant to this contract and the said streets and avenues shall be restored to their original condition at the sole cost and expense of the Company.

Eighth—The Company shall commence construction of the railway herein authorized within three (3) months from the date upon which the consents of the property owners are filed with the Board, or from the date of the order of the Appellate Division of the Supreme Court, made pursuant to section 174 of the Railroad Law, confirming the determination of the Commissioners appointed thereunder, that such railway ought to be constructed and shall complete the construction and place the same in full operation within six (6) months from the date of filing such consents or the date of such order; otherwise this right shall cease and determine, and all sums paid, or which may be deposited with the Comptroller of the City, as hereinater provided, shall thereupon be forfeited to the City; provided that the period for commencement and the period for completion and placing the railway in full operation may be extended by the Board, but the total extension of time for either of such periods shall not exceed in the aggregate six (6) months; and provided, further, that when the commencement or completion of said construction shall be prevented by legal proceedings in any court or by works of public improvement, or from other causes not within control of the Company, the time for the commencement or completion of such construction may be extended for the period of such prevention, but no delay shall be allowed for unless the court proceedings shall be diligently prosecuted by the Company, and provided, further, that in no case shall such delay be deemed to begin until the Company shall have given written notice to the Board of any such court proceedings or other occasion of delay, and deliver to the Board copies of any injunction or other orders, and the papers upon which the same shall have been granted, and unless upon the request of the Board the Company shall, in writing, consent that the Board either in its own name as a party, or in the name of the City as a party, may intervene in any such proceedings.

Ninth—Said railway shall be constructed and operated in the latest approved manner of street railway construction and operation, and it is hereby agreed that the Board may require the Company to improve or add to the railway equipment, including rolling stock and railway appurtenances, from time to time, as such additions and improvements are necessary, in the opinion of the Board. Upon failure on the part of the Company to comply with the direction of the Board within a reasonable time, the rights hereby granted shall cease and determine.

Tenth—Said railway shall be constructed, maintained and operated subject to the superivision and control of all the authorities of the City who have jurisdiction in such matters, as provided by the Charter of the City.

No construction upon said railway shall be commenced until written permits have been obtained from the proper City officials.

In any permits so issued such officials may also impose such conditions as a condition of the granting of the same as are necessary for the purpose of protecting any structures in the streets and avenues over which such officials have jurisdiction and the Company shall comply with such conditions.

The electrical equipment to be installed by the Company for the operation of the railway within the limits of the City, whether the same be upon streets and avenues or upon private property, shall be constructed and maintained under the supervision and control of the Commissioner of Water Supply, Gas and Electricity.

Eleventh—Said railway may be operated by overhead electric power, substantially similar to the overhead electric system now in use by street surface railways in the Borough of Queens, or by any other motive power, except locomotive steam power or horse power, which may be approved by the Board, and consented to by the abutting property owners, in accordance with the provisions of law, and by the Public Service Commission for the First District of the State of New York.

Provided, howeved, that the Board, at any time after the first ten (10) years of this contract, upon giving to the Company one (1) year's notice, may require the Company to operate its railway upon the whole or upon any portion of its route by underground electric power substantially similar to the system now in use on the street surface railways in the Borough of Manhattan, or by any other practical motive power then in use which does not require the use of poles and overhead wires in the streets and avenues, and thereupon to discontinue the use of the overhead trolley system, and to remove its poles, wires, and other structures used by it for that purpose, from the streets and avenues of the City.

Twelfth—Upon six (6) months' notice by the Board to the Company, all wires for the transmission of power, except trolley wires, for the operation of the railway, upon all or any portion of the route hereby authorized, shall be placed in conduits beneath or alongside of the railway. The Company shall provide in such conduits two (2) ducts not less than three (3) inches in diameter for the exclusive use of the City. Such ducts shall be used only by the Company for the operation of its railway and by the City, as above.

Thirteenth—The rate of fare for any passenger upon said railway shall not exceed five (5) cents and the Company shall not charge any passenger more than five (5) cents for one continuous ride from any point on its road or on any road, line or branch operated by it or under its control to any other point thereof, or any connecting branch thereof within the limits of the City.

The Company shall carry free upon the railway hereby authorized during the term of this contract all members of the Police and Fire Departments of the City, when such employees are in full uniform.

Fourteenth—No cars shall be operated upon the railway hereby authorized, other than passenger cars, cars for the transportation of express matter and cars necessary for the repair or maintenance of the railway, and no freight cars shall be operated upon the tracks of said railway.

The rate for the carrying of such property over the said railway upon the cars of the Company shall in all cases be reasonable in amount, subject to the control of the Board, and may be fixed by the Board after notice to the Company and a hearing had thereon, and when so fixed such rates shall be binding upon the Company, and no greater sums shall be charged for such services than provided for by it.

Fifteenth—The Company shall attach to each car run over the said railway proper fenders and wheel guards, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Sixteenth—All cars which are operated on said railway shall be heated during the cold weather, in conformity with such laws and ordinances as are now in force, or may hereafter, during the term of this contract, be enacted or adopted by the State or City authorities, or as may be required by resolution of the Board.

Seventeenth—All cars operated on said railway shall be well lighted by electricity, or by some lighting system equally efficient, or as may be required by resolution of the Board.

Eighteenth—Cars on the said railway shall run at intervals of not more than thirty (30) minutes both day and night, and as much oftener as reasonable convenience of the public may require, or as may be directed by the Board.

Provided, however, that the Company, during the first five (5) years of this contract, shall not be required to operate its cars between the hours of 1 o'clock a. m. and 5 o'clock a. m., each day, unless the Board shall determine after a hearing had thereon that public convenience requires the operation of cars during said hours.

Nineteenth—The Company, so long as it shall continue to use any of the tracks upon the streets and avenues in which said railway shall be constructed, shall, if required by the President of the Borough of Queens, cause to be watered at least three (3) times every twenty-four (24) hours when the temperature is above thirty-five (35) degrees Fahrenheit, the entire width of the streets and avenues, except when the width of such streets and avenues shall exceed sixty (60) feet between curblines, in which case the Company shall cause to be watered only sixty (60) feet in width of such roadway, and the Company shall provide for such purpose at least one tank car, the capacity of which shall be sufficient to water such streets and avenues in a satisfactory manner.

Twentieth—The Company shall at all times keep the streets and avenues upon which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails, on either side thereof, free and clear from ice and snow; provided, however, that the Company shall, at the option of the President of the Borough of Queens, enter into an agreement for each winter season, or part thereof, to clean an equivalent amount of street surface from house line to house line.

Twenty-first—As long as said railway, or any portion thereof, remains in any street or avenue, the Company shall pave and keep in permanent repair that portion of the surface of the street or avenue in which the said railway is constructed, between its tracks, the rails of its tracks and for a distance of two (2) feet beyond the rails on either side thereof, under the supervision of the local authorities, whenever required by them to do so, and in such manner as they may prescribe. In case of the neglect of the Company to make payment or repairs after the expiration of thirty (30) days' notice to do so from the President of the Borough of Queens, said President may make the same at the expense of the Company. And the City shall have the right to change the material or character of the pavement of any street or avenue, and in that event the Company shall be bound to replace such pavement in the manner directed by the proper City official, at its own expense, and the provisions as to repairs herein contained shall apply to such renewed or altered pavement.

Twenty-second—Any alteration to the sewerage or drainage systems, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the railway, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Twenty-third—It is agreed that the right hereby granted to operate a street surface railway shall not be in preference or in hindrance to public work of the City, and should the said railway in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the tracks and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Twenty-fourth—Should the grades or lines of the streets and avenues in which the railway is hereby authorized be changed at any time after the railway has been constructed and during the term of this contract, the Company shall, at its own expense, change its tracks and appurtenances to conform with such new grades and lines, and during the construction of any public improvement upon said streets and avenues the Company shall take care of and protect the tracks and appurtenances at its own expense, all to be done subject to the direction of the City official having jurisdiction over the construction of such change.

Twenty-fifth—The Company shall submit to the Board a report not later than November 1 of each year for the year ending September 30 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued, for cash, for property.
2. The amount paid in as by last report.
3. The total amount of capital stock paid in.
4. The funded debt by last report.
5. The total amount of funded debt.
6. The floating debt as by last report.
7. The total amount of floating debt.
8. The total amount of funded and floating debt.
9. The average rate per annum of interest on funded debt.
10. Statement of dividends paid during the year.
11. The total amount expended for same.
12. The names of the directors elected at the last meeting of the corporation held for such purpose.
13. Location, value and amount paid for real estate owned by the Company as by last report.
14. Location, value and amount paid for real estate now owned by the Company.
15. Number of passengers carried during the year.
16. Total receipts of Company for each class of business.
17. Amounts paid by the Company for damage to persons or property on account of construction and operation.
18. Total expenses for operation, including salaries.

—and such other information in regard to the business of the Company as may be required by the Board.

Twenty-sixth—The Company shall at all times keep accurate books of account of the gross receipts from all sources within the limits of the City, and shall, on or before November 1 of each year, make a verified report to the Comptroller of the City of the business done by the Company for the year ending September 30 next preceding, in such form as he may prescribe. Such report shall contain a statement of such gross receipts, the total miles in operation within the limits of the City and the miles of railway constructed and operated under this contract, and such other information as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report, and may examine its officers under oath.

Twenty-seventh—In case of any violation or breach or failure to comply with any of the provisions herein contained, or with any orders of the Board acting under the powers herein reserved, the franchise or consent herein granted may be forfeited by a suit brought by the Corporation Counsel, on notice of ten (10) days to the Company, or at the option of the Board by resolution of said Board, which said resolution may contain a provision to the effect that the railway constructed and in use by virtue of this contract shall thereupon become the property of the City without proceedings at law or in equity. Provided, however, that such action by the Board shall not be taken until the Board shall give notice to the Company to appear before it on a certain day not less than ten (10) days after the date of such notice, to show cause why such resolution declaring the contract forfeited should not be adopted. In case the Company fails to appear, action may be taken by the Board forthwith.

Twenty-eighth—If the Company shall fail to give efficient public service at the rates herein fixed, or fail to maintain its structures and equipment as herein provided in good condition throughout the whole term of this contract, the Board may give notice to the Company specifying any default on the part of the Company, and requiring the Company to remedy the same within a reasonable time; and upon failure of the Company to remedy such default within a reasonable time, the Company shall, for each day thereafter during which the default or defect remains, pay to the City the sum of two hundred and fifty dollars ($250) as fixed or liquidated damages, or the Board, in case such structure or equipment which may affect the surface of the streets shall not be put in good condition within a reasonable time after notice by the Board as aforesaid shall have the right to make all needed repairs at the expense of the Company, in which case the Company shall pay to the City the amount of the cost of such repairs, with legal interest thereon, all of which sums may be deducted from the fund hereinafter provided for.

Twenty-ninth—The Company shall assume all liability to persons or property by reason of the construction or operation of the railway authorized by this contract, and it is a condition of this contract that the City shall assume no liability whatsoever to either persons or property on account of the same, and the Company hereby agrees to repay to the City any damage which the City shall be compelled to pay by reason of any acts or default of the Company.

Thirtieth—This grant is upon the express condition that the Company, within thirty (30) days after the signing of this contract by the Mayor, and before anything is done in exercise of the rights conferred hereby, shall deposit with the Comptroller of the City the sum of two thousand dollars ($2,000), either in money or securities, to be approved by him, which fund shall be security for the performance by the Company of all of the terms and conditions of this contract and compliance with all orders of the Board acting under the powers herein reserved, especially those which relate to the payment of the annual charges for the privilege hereby granted, the rendering of efficient public service, at the rates herein fixed, the repairs of the street pavement, the removal of snow and ice, the quality of construction of the railway, and the maintenance of the property in good condition throughout the whole term of this contract, and in case of default in the performance by the Company of such terms and conditions, or compliance with such orders or either or any of them, the City shall have the right to cause the work to be done and the materials to be furnished for the performance thereof after due notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings; or after default in the payment of the annual charges, shall collect the same, with interest, from the said fund after ten (10) days' notice to the Company; or in case of failure to observe the said terms and conditions of this contract and orders of the Board acting hereunder, relating to the headway, heating and lighting of cars, fenders, wheelguards and watering of street pavements, the Company shall pay a penalty of fifty dollars ($50) per day for each day of violation, and the further sum of ten dollars ($10) per day for each car that shall not be properly heated, lighted or supplied with fenders or wheelguards, in case of a violation of the provisions relating to those matters, all of which sums may be deducted from said fund.

The procedure for the imposition and collection of the penalties in this contract shall be as follows:

The Board, on complaint made, shall give notice to the Company, directing its President, or other officer, to appear before the Board on a certain day not less than ten (10) days after the date of such notice, to show cause why the Company should not be penalized in accordance with the foregoing provisions. If the Company fails to make an appearance, or, after a hearing appears in the judgment of the Board to be in fault, said Board shll forthwith impose the prescribed penalty, or where the amount of the penalty is not prescribed herein, such amount as appears to the Board to be just, and without legal procedure direct the Comptroller to withdraw the amount of such penalty from the security fund deposited with him. In case of any drafts made upon the security fund the Company shall, upon ten (10) days' notice pay to the City a sum sufficient to restore said security fund to the original amount of two thousand dollars ($2,000), and in default thereof this contract shall be canceled and annulled at the option of the Board, acting in behalf of the City. No action or proceeding or right under the provisions of this contract shall affect any other legal rights, remedies or causes of action belonging to the City.

Thirty-first—The grant of this privilege is subject to whatever right, title or interest the owners of abutting property or others may have in and to the streets and avenues in which the Company is hereby authorized to operate.

Thirty-second—The words "notice" or "direction," wherever used in this contract, shall be deemed to mean a written notice or direction. Every such notice or direction to be served upon the Company shall be delivered at such office in the City as shall have been designated by the Company, or if no such office shall have been designated, or if such designation shall have for any reason become inoperative, shall be mailed in the City, postage prepaid, addressed to the Company at the City. Delivery or mailing of such notice or direction as and when above provided shall be equivalent to direct personal notice or direction, and shall be deemed to have been given at the time of delivery or mailing.

Thirty-third—The words "streets or avenues' and "streets and avenues" wherever used in this contract shall be deemed to mean "streets, avenues, highways, parkways, driveways, concourses, boulevards, bridges, viaducts, tunnels, public places or any other property to which the City has title, or over which the public has an easement" encountered in the route hereinbefore described, and upon or in which authority is hereby given to the Company to construct a railway.

Thirty-fourth—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned, shall be transferred by law to any other board, authority, officer or officers, then and in such case such other board, authority, officer or officers shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Section 3. Nothing in this contract shall be construed as in any way limiting the present or future jurisdiction of the Public Service Commission under the Laws of the State of New York.

Section 4. This grant is also upon the further and express condition that the provisions of Article 5 and other provisions of the Railroad Law, pertinent thereto, shall be strictly complied with by the Company.

Section 5. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part, by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,

[CORPORATE SEAL.] By..........................Mayor.

Attest..........................City Clerk.

QUEENS BOROUGH STREET RAILWAY COMPANY,

[SEAL.] By..........................President.

Attest..........................Secretary.

(Here add acknowledgments.)

Hon. Daniel Ehntholt appeared in opposition to the proposed grant.

The matter was referred to the President of the Borough of Queens at his request.

Mason and Hanger Company.

The Secretary presented the following:

New York, June 23, 1911.

Honorable Board of Estimate and Apportionment, Division of Franchises, 277 Broadway, New York:

Sirs—In planning for the distribution of power to the five shafts of Contract 63, for the construction of the northerly section of the City Tunnel of the Catskill Aqueduct, recently awarded to us by the Board of Water Supply, we find it most advantageous to construct a central compressor plant on swamp lands near the intersection of Van Cortlandt avenue and Van Cortlandt Park South, for which permission has been given by the Commissioner of Parks, and to distribute compressed air from this point to the shafts located in the park. We have also been granted permission by the Commissioner of Water, Gas and Electricty to lay the compressed air line along the westerly bank of the West Basin of Jerome Park Reservoir, thence on top of the embankment covering the old Croton Aqueduct, to Shaft 5, located at 183d street.

For this purpose it is necessary to lay the compressed air line in the public highways, and we respectfully request permission to open the following streets, as indicated below, and to lay the above pipes therein, of the sizes noted. We also enclose plan showing the location of these crossings:

12-inch pipe from Van Cortlandt Park South to Sedgwick avenue, on Van Cortlandt avenue; 10-inch pipe, Sedgwick avenue, from Van Cortlandt avenue to Shaft 3, at the head of Jerome Park Reservoir; 8-inch pipe, crossing Sedgwick avenue in northerly direction at Shaft 3; 7-inch pipe, crossing Jerome avenue, just south of East 233d street; 7-inch pipe, crossing East 233d street, just east of Jerome avenue; 7-inch pipe, crossing Kingsbridge road at Reservoir avenue; 7-inch pipe, crossing West 192d street at Old Croton Aqueduct right-of-way; 7-inch pipe, crossing West 190th street at Old Croton Aqueduct right-of-way; 7-inch pipe, crossing West 188th street at Old Croton Aqueduct right-of-way; 7-inch pipe, crossing Fordham road at Old Croton Aqueduct right-of-way.

We beg to say the proposed air line will be in use for a period of about forty months, during the construction of contract with the Board of Water Supply, and we propose taking the pipe out of the ground at the completion of our work.

Yours Respectfully, MASON & HANGER COMPANY,

H. B. Hanger, President.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 29, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sirs—The Mason and Hanger Company has presented a petition dated June 23, 1911, to the Board of Estimate and Apportionment for permission to install, maintain and use a compressed air pipe under, along and across various streets and avenues in the Borough of The Bronx in connection with the construction of the northerly section of the City tunnel of the Catskill Aqueduct under a contract numbered 63, recently awarded to the petitioner by the Board of Water Supply. The streets and avenues under and along which the Company desires to install the said pipe line and the sizes of pipe to be installed are as follows:

A 12-inch pipe in Van Cortlandt avenue, from Van Cortland Park South to Sedgwick avenue.

A 10-inch pipe under and across Sedgwick avenue at Van Cortlandt avenue.

A 8-inch pipe under and across Sedgwick avenue near Harold avenue.

A 7-inch pipe under and diagonally across Jerome avenue at East 233d street.

A 7-inch pipe under and across Fordham road, West 188th street, West 190th street, West 192d street and Kingsbridge road, all within the extended lines of the old Croton Aqueduct.

The petitioner states that an agreement is about to be entered into with the Commissioner of Parks to construct a central compressor plant on swamp lands near the intersection of Van Cortlandt avenue and Van Cortlandt Park South and distribute the compressed air from that point under and across the park lands encountered by the proposed pipe line. Permission has also been obtained from the Commissioner of Water Supply, Gas and Electricity to lay the pipe line along the westerly bank of the west basin of Jerome Park Reservoir and along the embankment covering the old Croton Aqueduct, and a copy of such permission has been filed in this office. The permission of the Board of Estimate and Apportionment is necessary for those portions of the pipe line crossing streets and avenues under its authority. The pipe line will be in use for a period of about forty months, within which time it is anticipated that the contract will be completed and the pipe line will then be removed from the streets.

The petitioner is incorporated under the Laws of the State of West Virginia, and at my request has filed in this office a copy of its certificate of authority to do business in the State of New York, issued by the Secretary of State June 14, 1909.

Copies of the petition with accompanying plans were forwarded to the President of the Borough of The Bronx and the Commissioner of Water Supply, Gas and Electricity with a request that examinations be made by the various bureaus of said Departments having jurisdiction, with a view to ascertaining if there are any objections to the proposed pipe line or any particular conditions which should be incorporated in the form of revocable consent heretofore used by the Board for similar privileges. Replies to said communications dated, respectively, June 26 and June 29, 1911, state there are no objections to the project and no particular conditions necessary to be inserted in the consent.

The greatest length of the proposed pipe line within the City streets is on Van Cortlandt avenue from Van Cortlandt Park South to Sedgwick avenue, but the installation of the pipe line in Van Cortlandt avenue will not cause any disturbance to the City's street system as the petitioner holds a contract from the City to regulate and grade that portion of the said avenue.

As there are no objections to the project, I can see no good reason why the requested permission should not be given. Should the Board see fit to do so, I would suggest that consent be granted during the pleasure of the Board of Estimate and Apportionment, but in no case to extend beyond a period of five (5) years from the date of the approval of the consent by the Mayor, and revocable upon sixty (60) days' notice in writing, and that it be made a condition of the consent that a security deposit in the sum of three thousand dollars ($3,000) be required; said deposit to be in the form of either money or securities to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

The lengths of the pipe line within the City streets are as follows: Van Cortlandt avenue from Van Cortlandt Park South to Sedgwick avenue and across Sedgwick avenue, 1,099 feet; Jerome avenue, 140 feet; Kingsbridge road, 234 feet; West 192d street, 60 feet; West 190th street, 60 feet; West 188th street, 30 feet; Fordham road, 90 feet; making a total length of 1,713 feet of pipe line within the lines of the streets. All of this pipe is less than sixteen inches in diameter and at the rate heretofore fixed by the Board for private pipes in the City streets, the charge for the pipe line should be two thousand and forty-five and 50/100 dollars ($2,045.50) per annum.

It has been made a condition of the consent that such sum be paid into the City Treasury in advance on November 1 of each year; the first payment, however, to be made within sixty (60) days of the date of approval of the consent by the Mayor and to be only such proportion of said two thousand and forty-five and 50/100 dollars ($2,045.50) as the time between the date of approval of the consent by the Mayor and November 1, 1911, bears to a whole year.

The customary form of resolution granting consent is herewith submitted for adoption. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, Mason and Hanger Company has presented a petition dated June 23, 1911, to the Board of Estimate and Apportionment for its consent to the installation, maintenance and use of a pipe line under, along and across certain streets and avenues in the Borough of The Bronx for the purpose of conveying compressed air from a compressor plant to be erected by the petitioner on the northerly side of Van Cortland Park South near Van Cortlandt avenue to the line of the City tunnel of the Catskill Aqueduct; now, therefore, be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to Mason and Hanger Company, a corporation organized and existing under the Laws of the State of West Virginia and duly authorized by a certificate from the Secretary of State dated June 14, 1909, to do business in the State of New York, to install, maintain and use a pipe line in the Borough of The Bronx from a compressor plant to be constructed by the said grantee on property situated on the northerly side of Van Cortlandt Park South near Van Cortlandt avenue to the line of the City tunnel of the Catskill Aqueduct for the purpose of using compressed air in the prosecution of the work of constructing said tunnel under a contract awarded to the said grantee by the Board of Water Supply, and for no other purpose; said pipe to pass under, along and across Van Cortlandt avenue from Van Cortlandt Park South to Sedgwick avenue, and under and across Sedgwick avenue and under and across Fordham road, West 188th street, West 190th street, West 192d street, Kingsbridge road and Jerome avenue at East 233d street, all as shown upon the plan accompanying the application, and entitled:

"Plan showing locations of proposed pipes to be constructed in West 188th street, Fordham road, West 190th street, West 192d street, Kingsbridge road, Sedgwick avenue, Albany road, Jerome avenue, Van Cortlandt avenue, Borough of The Bronx, to accompany application dated June 23, 1911, of Mason and Hanger Company to the Board of Estimate and Apportionment, City of New York,"
—and signed Mason and Hanger Company, Edgar A. Groves, Engineer; a copy of which is attached hereto and made a part hereof upon the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of five (5) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said streets by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, two thousand and forty-five and 50/100 dollars ($2,045.50). Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—

(a) Its construction, maintenance and removal.

(b) The protection of all structures which shall in any way be disturbed by its construction or removal.

(c) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(d) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(e) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(f) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of three thousand dollars ($3,000), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of three thousand dollars ($3,000), and in default of the payment thereof, the consent hereby given may be cancelled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before January 1, 1912, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

J. B. Malatesta.

In the matter of the application of J. B. Malatesta for permission to construct, maintain and use a narrow gauge railroad track from the easterly side of White Plains road and Boston road, across White Plains road and along Astor avenue to Olinville avenue, to Britton street, to Bronx boulevard, to Burke street, Borough of The Bronx.

This application was presented to the Board at the meeting of June 29, 1911, and referred to the Bureau of Franchises.

The Secretary presented the following:

3169 Jerome Avenue, New York City, June 27, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment*, 277 Broadway, New York, N. Y.:

Dear Sir—In connection with my contracts for regulating and grading Boston road and Bronx boulevard, I hereby make application for a permit to lay a temporary narrow gauge railroad track from the junction of Boston road, White Plains road and Astor avenue, thence along Astor avenue to Olinville avenue, thence northerly along Olinville avenue to Britton street, thence along Britton street to Bronx boulevard, thence along Bronx boulevard to Burke street.

I have received the consents of the property owners on Britton street, this being the only street where title has not been vested in the City.

The construction of this railroad will greatly facilitate the work on the above named contracts, and in granting same I shall be able to complete them in much less time than is allowed.

The streets through which this railroad is intended to run are not built up, there being only one house on the entire line. In view of the foregoing, I would request that you use every endeavor to secure this permission. Yours very truly,

J. B. MALATESTA, Contractor.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, June 30, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—J. B. Malatesta has presented a petition dated June 27, 1911, to the Board of Estimate and Apportionment for permission to lay down, maintain and use temporarily a narrow gauge railroad track from the easterly side of White Plains road at Boston road directly across White Plains road and along Astor avenue to Olinville avenue; thence northerly along Olinville avenue to Britton street; thence westerly along Britton street to Bronx boulevard; thence northerly along Bronx boulevard to Burke street.

The petition recites that the proposed railroad track will facilitate the work of regulating and grading Boston road and Bronx boulevard under contracts from the City held by the petitioner and will enable the work to be completed in less time than provided.

Title to the land within the lines of Britton street has not yet vested in the City, and said street is not physically open to public use, but the owners' consent has been obtained by the petitioner. The other streets upon which the proposed track is to be placed are regulated and graded and White Plains road is paved, but there is only one building along the entire line of the proposed track. The petitioner has stated that permission is only requested for a term of about seven months, during which period the work will be entirely completed.

In a communication dated June 29, 1911, The President of the Borough of The Bronx has stated that there are no objections to the granting of a temporary permit for this proposed construction track but that the grantee should be required to furnish security for the restoration of the pavement across White Plains road.

I have been informed by the office of the Borough President that Mr. Malatesta has lately been awarded the contract for regulating and grading the portion of

Bronx baulevard north of Burke street, his bid being $57,961, such sum being almost $10,000 less than the next lowest bidder, and that he was enabled to present such a low bid on account of his ability to furnish filling to Bronx boulevard from his Boston road contract by means of the proposed temporary railroad.

In view of the decision in the case of Hatfield vs. Straus, it would not ordinarily be within the power of the Board to grant the requested permission, but in this particular case the proposed contract is a means of saving to the City some $10,000. Furthermore, there is no great public use of the larger part of the route upon which it is proposed to construct the track. In view of these facts, it was deemed advisable to request an opinion of the Corporation Counsel as to whether authorization could properly be granted for such a track in this particular case.

In response to such request, the Corporation Counsel rendered an opinion, wherein it is held that, in view of the saving to the City incident to the construction and use of the proposed track and the rapidity with which the work may be done, the Board might elect to consider this a case where a revocable consent could properly be granted. The opinion further suggests that the petitioner should be required to first obtain consents of all abutting property owners along the line of the proposed railroad. Such course of procedure would undoubtedly be best, but in this particular case the object of the petitioner would be defeated by such a requirement, as it might take considerable time to obtain such consents and the track is only desired for about seven months. It would therefore seem that such requirement might be waived, the petitioner having already obtained the consent of the owner of the property within the lines of Britton street, and the form of consent herewith submitted provides that it is subject to whatever right, title or interest the owners of abutting property may have in and to the said streets.

In view of this opinion, there appears to be no reason why the requested privilege should not be granted. Should the Board deem it advisable to do so, I would suggest that consent be given only during the pleasure of the Board of Estimate and Apportionment, and in no case to extend beyond March 1, 1912, and revocable upon ten days' notice, in order that the consent may be revoked immediately upon the receipt of objections by abutting property owners to the track. It should also be made a condition of the consent that a security deposit in the sum of two thousand dollars ($2,000) be required; said deposit to be in the form of either money or securities to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent. Such fund will insure the restoration of the street pavements as requested in the hereinbefore mentioned communication from the Borough President.

At the rate of charge heretofore fixed by the Board for railroad tracks in the City streets, viz.—four per cent. per annum of the assessed valuation of the area of street occupied, a width of ten feet being estimated for a single track, the charge for this privilege for the term of the consent—a period of seven and one-half monthly only—should be one hundred and sixty-five dollars ($165).

The customary form of resolution granting consent is herewith submitted for adoption. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, J. B. Malatesta has presented a petition dated June 27, 1911, to the Board of Estimate and Apportionment for its consent to the construction, maintenance and use of a narrow gauge railroad track from the junction of Boston road and White Plains road, directly across said White Plains road and along Astor avenue to Olinville avenue; thence northerly along Olinville avenue to Britton street; thence along Britton street to Bronx boulevard; thence along Bronx boulevard to Burke street; said track to be used for the purpose of conveying material; all as more fully recited in a report of the Bureau of Franchises presented herewith; now therefore be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to J. B. Malatesta to construct, maintain and use temporarily a narrow gauge railroad track beginning at the easterly side of White Plains road at Boston road; thence extending directly across White Plain road and westerly along Astor avenue to Olinville avenue; thence northerly along Olinville avenue to Britton street; thence westerly along Britton street to Bronx boulevard; thence northerly along Bronx boulevard to Burke street; said track to be used for the purpose of conveying material in connection with the regulating and grading of Bronx boulevard, and for no other purpose; all as shown on a plan accompanying the application, entitled:

"Plan showing location of 36-inch gauge railroad track to be constructed across White Plains road and along Astor avenue and Olinville avenue, Britton street and Bronx boulevard, to accompany application dated June 27, 1911, of J. B. Malatesta to the Board of Estimate and Apportionment, City of New York,"
—and signed by J. B. Malatesta; a copy of which is attached hereto and made a part hereof upon the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon ten (10) days' notice in writng to the grantee, but in no case shall it extend beyond March 1, 1912, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, the sum of one hundred and sixty-five dollars ($165.) Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—

(a) Its construction, maintenance and removal.

(b) The protection of all structures which shall in any way be disturbed by its construction or removal.

(c) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(d) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(e) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(f) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

As proceedings have been initiated for the opening of Britton street, where the proposed track is to be located, but title has not yet vested in the City, it is made a particular condition of this resolution that the consent of the City to the construction of the track on the said portion of Britton street shall not take effect until such time as title to said portion of said street shall vest in the City.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of two thousand dollars ($2,000), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in wrting, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of two thousand dollars ($2,000), and in default of the payment thereof, the consent hereby given may be cancelled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before October 1, 1911, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided. however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file the said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Rapid Transit Railway, Battery-East River-Atlantic Avenue Route.

The Secretary presented the following:

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your approval and the approval of the Mayor of the City as required by law certified copies of resolutions adopted by it on the 30th day of June, 1911, determining and establishing a route and general plan of construction for an additional rapid transit railroad to be known as the Battery-East River-Atlantic Avenue Route.

This route is among those recommended for construction in the report dated June 5, 1911, of the Select Committee of the Board of Estimate and Apportionment and of the members of the Commission, which report was later approved by the Board of Estimate and Apportionment.

The proposed route will connect the routes heretofore adopted and approved terminating at the Battery with Brooklyn routes also adopted and approved in Atlantic, 4th and Flatbush avenues. The benefit to be derived from putting the Borough of Brooklyn on an all-rail connection with the Borough of Manhattan is too obvious to require discussion.

As the construction of the under-river crossings will probably require the greatest time, the Commission considers it important that steps be taken to secure the necessary consents for this route at as early a date as possible. The matter of canvassing for property owners' consents will, of course, have to await the determination upon this matter of your honorable Board and the Mayor.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, By W. R. WILLCOX, Chairman.

[SEAL OF THE COMMISSION]

Attest: TRAVIS H. WHITNEY, Secretary.

Dated June 30, 1911.

The following was offered:

Resolved, That the communication be received and in pursuance of law, this Board hereby appoints Thursday, the 13th day of July, 1911, at 10.30 o'clock in the forenoon as the time, and Room 16, City Hall, Borough of Manhattan, as the place when and where such plans and conclusions will be considered; and be it further

Resolved, That the Secretary be and he hereby is directed to cause notice of such consideration to be published in the CITY RECORD.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The matter was then referred to the Franchise Committee.

The following matter not on the Calendar for this day was considered by unanimous consent:

Rapid Transit Railways.

The President of the Borough of Manhattan presented a communication from the Brooklyn Rapid Transit Company in reply to resolution adopted by this Board at the special meeting on June 30, 1911, as follows:

Brooklyn Rapid Transit Co., 85 Clinton Street, Brooklyn, N. Y., Office of the President, July 5, 1911.

Hon. WILLIAM R. WILLCOX, *Chairman, Public Service Commission for the First District;* Hon. GEORGE MCANENY, *Chairman, Special Committee of the Board of Estimate and Apportionment,* Borough of Manhattan.

Gentlemen—We acknowledge receipt of your communication of the 30th ultimo transmitting copy of report made by you to the Board of Estimate and Apportionment, the recommendations of which were adopted by that body at a special meeting on June 30 last.

Replying particularly to subdivision G of paragraph 1 of said report,

"That the contract for the lines aforesaid shall be conditioned upon the company's agreement to operate upon the general terms set forth in the resolutions adopted by the Board on June 21, 1911, as herein amended, the additional lines and extensions set forth in its proposition of April 25, 1911, and upon the company's assurance to the Board of Estimate and Apportionment not later than July 6, 1911, that it will operate such additional lines if requested so to do."

—we hereby formally assure you and the Board of Estimate and Apportionment of our willingness to operate such additional lines upon the general terms set forth in the resolutions adopted by the Board on June 21, 1911, and as amended in the committee's report of June 29, 1911.

We call your attention to certain language of the report as embodied in the copy transmitted to us which we assume does not fully express the purpose of your committee.

In subdivision A of paragraph 1 referring to recapture, it is provided that there shall be paid to the company the actual cost of the equipment "less the amount of expenditures for depreciation and renewals, and the amount accrued in any sinking fund," etc. We assume that this is intended to mean any unexpended balance of depreciation and renewal charges.

In subdivision E of paragraph 1, we assume that the words "cost of construction" are intended to include also the cost of equipment.

In subdivision F of paragraph 1, we assume that the words "any incidental fee damages for rights of way in acquiring streets allowed by the courts" are not limited to damages for rights of way in the opening of new streets, but include generally damages for rights of way in streets already opened.

We stand ready to cooperate with the Public Service Commission and your Committee in the preparation of plans and specifications and the formulation of contracts, to the end that there may promptly be secured for the public the fullest measure of transit benefits permitted under our proposals. Respectfully submitted,

BROOKLYN RAPID TRANSIT COMPANY, by T. S. *Williams*, President.

The President of the Borough of Manhattan then moved that the communication be laid on the table and taken up for consideration at the special meeting to be held Monday, July 10, 1911, at 10.30 o'clock a. m.

Which motion was agreed to.

FINANCIAL MATTERS.

The following transfers of appropriations were made upon the recommendation of the Comptroller:

$1,000 within the appropriation made to the Department of Bridges for the year 1911.

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, N. Y., June 7, 1911.

To the Honorable Board of Estimate and Apportionment of The City of New York:

Gentlemen—I have to request the following transfer within the Budget appropriation for the Department of Bridges for the year 1911, as follows:

From

Manhattan Bridge—

139. General Supplies	$1,000 00

—the amount therefor being in excess of requirements.

To

Manhattan Bridge—

141. Repairs and Replacements by Contract or Open Order	$1,000 00

—the amount thereof being insufficient.

This transfer does not increase the Budget appropriation for this Department for the year 1911. Respectfully,

WM. H. SINNOTT, Deputy and Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 27, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 7, 1911, the Deputy and Acting Commissioner of Bridges requested a transfer of $1,000 within the appropriations to the Department of Bridges for 1911. In connection therewith I report as follows:

The proposed transfer is from Manhattan Bridge, No. 139, General Supplies, to Manhattan Bridge, No. 141, Repairs and Replacements by Contract or Open Order. The credit transfer is stated to be necessary for repairs to the bridge. The Budget appropriation of $1,000 for the purpose is almost exhausted, and there is an ample unencumbered balance in No. 139 for debit transfer.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The folowing resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Bridges for the year 1911, as follows:

From

Manhattan Bridge—

139. General Supplies	$1,000 00

To

Manhattan Bridge—

141. Repairs and Replacements by Contract or Open Order	$1,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

$2,575 within the appropriation made to the Department of Public Charities for the year 1910.

Department of Public Charities of The City of New York, Foot of East 26th Street, June 16, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—I beg respectfully to request the transfer of two thousand five hundred and seventy-five dollars ($2,575) from the appropriation to this Department for the year 1910, entitled, "Department of Public Charities, Miscellaneous, Code 1910, No. 638, State Hospital for Incipient Tuberculosis," the same being in excess of the amount required therefor, to the appropriation: "Department of Public Charities, Miscellaneous, Code 1910, No. 636, Clothing for Epileptics Sent to Craig Colony," the same being insufficient. Respectfully yours,

M. J. DRUMMOND, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 27, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 16, 1911, the Commissioner of the Department of Public Charities requested the transfer of $2,575 within appropriations to his Department for the year 1910. In connection therewith, I report as follows:

The transfer is from Miscellaneous, No. 638, State Hospital for Incipient Tuberculosis, to Miscellaneous, No. 636, Clothing for Epileptics sent to Craig Colony.

The appropriation for No. 638 was $17,000. The liability incurred was $13,819.68, leaving an unencumbered balance of $3,180.32.

The appropriation for No. 636 was $7,500. Bills amounting to $10,050.23 for clothing furnished to about 400 epileptics sent by the City to Craig Colony, Sonyea, N. Y., have been received, indicating a deficit of $2,550.23.

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, that the Board of Estimate and Apportionment ,pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Public Charities for the year 1910, as follows:

From

Miscellaneous—

638. State Hospital for Incipient Tuberculosis	$2,575 00

To

Miscellaneous—

636. Clothing for Epileptics sent to Craig Colony	$2,575 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

$2,500, within the appropriation made to the President of the Borough of The Bronx for the year 1911.

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the President, June 20, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—Request is hereby respectfully made that the sum of $2,500 be transferred from the appropriation made to the President, Borough of The Bronx, for the year 1911, entitled Bureau of Highways—Maintenance of Highways—Code 1727, "Repairs and Replacements by Contract or Open Market Order," the same being in excess of the amount required for the purposes thereof, to the appropriation made to the said President for the same year, entitled Bureau of Highways—Maintenance of Highways—Code 1732, "Contingencies," the amount of said appropriation being insufficient.

The purpose of this transfer is to provide funds to purchase seven (7) additional horses. It has been several years since any additional horses have been purchased for the use of Highways-Maintenance of this Department, although several have been worn out in the service from time to time and sold at public auction. The special use designed for these horses is to convey throughout the Borough daily the General Inspectors, which, owing to the long distance traversed, requires the use of different horses twice a day, or morning and afternoon.

The funds can be spared from the appropriation for Repairs and Replacements as above stated, for the reason that the painting of the superstructures of bridges crossing the railroads of the Borough, for which an appropriation was made, are to be painted by the railroad companies, instead of by this Department, as originally contemplated. Respectfully,

CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the President of the Borough of The Bronx requested the transfer of $2,500 within the appropriations for the Bureau of Highways in his office for 1911. In connection therewith, I report as follows:

The transfer is to provide for the purchase of seven horses for use in connection with maintenance work. It is stated that no horses have been purchased for the work for several years, although several horses have been worn out in the service and sold at auction. The horses are used throughout the Borough by the general Inspectors in making their tours. Owing to the great area covered it is necessary to use two horses for each Inspector during the working day.

It is proposed to transfer the amount from No. 1727, Repairs and Replacements by Contract or Open Order. The appropriation for the account was $21,000. Part of the allowance was to be expended for painting several highway bridges in the Borough. The work has been done by the railroad companies over whose tracks the bridges pass, thereby saving to the City enough for the transfer. No provision was made in the Budget for the purchase of horses. The credit transfer is proposed for No. 1732, Contingencies.

I recommend the approval of the request by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the office of the President of the Borough of The Bronx for the year 1911, as follows:

From

Bureau of Highways—Maintenance of Highways—	
1727. Repairs and Replacements by Contract or Open Order	$2,500 00

To

1732. Contingencies	$2,500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

$100, within the appropriation made to the Board of Assessors for the year 1911.

Office, Board of Assessors, 320 Broadway, New York, June 2, 1911.

Hon. W. J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment,* City of New York:

Sir—The Board of Assessors respectfully asks for a transfer of one hundred dollars ($100) from its telephone account of 1911, account No. 1338, to its contingency account of 1911, account No. 1339, said transfer being within its total appropriation for the current year.

There was an unexpended balance of one hundred and twenty-one dollars ($121) from the appropriation for telephone service for the year 1910, and as this service has not been changed, it is likely that a similar balance will remain at the close of 1911 unless this transfer is made.

The Board desires the transfer for the purchase of the Court of Appeals reports, which it regards very necessary for the use of the office. The sum of $75 appropriated under the general supplies account simply covers the cost of current reports and other books of a special character which are required from time to time.

Yours respectfully, THOMAS J. DRENNAN, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 27, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 2, 1911, the Secretary of the Board of Assessors requested the transfer of $100 within appropriations for the Board for the year 1911.

The proposed transfer is from No. 1338, Telephone Service, to No. 1339, Contingencies. The appropriation for No. 1339 was $375. The $100 is for the purchase of the Court of Appeals Reports. The Board states that the Reports are necessary for the use of the office. There is ample balance in No. 1338 for the debit transfer.

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the Board of Assessors, for the year 1911, as follows:

From	
1338. Telephone Service	$100 00
To	
1339. Contingencies	$100 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

$8, within the appropriation made to the County Court and Surrogate's Court, Richmond County, for the year 1910.

County of Richmond, Surrogate's Office, Richmond, N. Y., June 26, 1911.

Hon. William J. Gaynor, *Chairman, Board of Estimate and Apportionment,* City Hall, New York:

Dear Sir—I find that, through an error, there is still outstanding against Account No. 1972, 1910, the sum of eight dollars in favor of the Matthew Bender Company, for books furnished for use in the library of this Department.

As there are no funds in said Account No. 1972, 1910, and there is an unexpended balance in Account No. 1971, 1910, I would respectfully request that the sum of eight dollars be transferred from Telephone Account No. 1971, 1910, to Contingencies Account No. 1972, 1910. Respectfully yours,

SIDNEY F. RAWSON, County Judge and Surrogate.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1911, the County Judge and Surrogate of Richmond County requested the transfer of $8 within appropriations to the Court for the year 1910.

The transfer is from No. 1971, Telephone Service, to No. 1972, Contingencies. The appropriation for 1972 was $250. The liabilities incurreed amount to $258. The $8 deficiency is on account of the purchase of law books from the Matthew Bender Company.

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the County Court and Surrogate's Court, Richmond County, for the year 1910, as follows:

From

1971. Telephone Service	$8 00

To

1972. Contingencies	$8 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Pressident of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

$32.99 within the appropriation made to the Pressident of the Borough of Queens for the year 1910.

The City of New York, Offices, Commissioner of Public Works of the Borough of Queens, Long Island City, June 15, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment,* New York City:

Sir—Pursuant to provisions of section 237 of the Charter of The City of New York, application is hereby made for a resolution authorizing the transfer between the following funds of the Bureau of Public Buildings and Offices, this Department, to wit:

Fund, President of the Borough of Queens, Bureau of Public Buildings and Offices, No. 1658, 1910, General Supplies, $32.99, to Fund, President of the Borough of Queens, Bureau of Public Buildings and Offices, No. 1660, 1910, Repairs and Replacements by Contract or Open Order, $32.99.

This transfer is neceessary to liquidate vouchers on account of orders issued by this Department, amounting to ninety-six dollar ($96).

We have an apparent balance in Fund No. 1660 of $63.01, plus the transfer of $32.99—equals $96. Your repectfully,

WALTER H. BUNN, Acting President of the Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 15, 1911, the Acting President of the Borough of Queens requested the transfer of $32.99 within appropriations to his office for the year 1910.

The transfer is in the Bureau of Public Buildings and Offices, from No. 1658, General Supplies, to No. 1660, Repairs and Replacements by Contract or Open Order. It is stated the $32.99 is needed to cover a deficit on account of orders issued by the Bureau.

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the office of the President of the Borough of Queens for the year 1910, as follows:

From

Bureau of Public Buildings and Offices, Maintenance—

1658. General Supplies	$32 99

To

Maintenance—

1660. Repairs and Replacements by Contract or Open Order	$32 99

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Pressident of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

$75, within the appropriation made to the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1910.

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, June 26, 1911.

To the Board of Estimate and Apportionment, City of New York:

Gentlemen—I beg to request that your Honorable Board will authorize the traneser of the sum of seventy-five dollars ($75) from the appropriation No. 857 for the year 1910 (Repair and Replacement by Contract or Open Order), to No. 856 for the same year (Materials for Repairs and Replacements by Departmental Labor), the latter being insufficient to cover the expense of purchasing materials necessary for repairs to the park drives. It is found that about 37½ cubic yards of such material was used to complete the work in excess of the quantity covered by contract made for supplying gravel for that purpose. Respectfully,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested a transfer of $75 within appropriation to the Department for the year 1911. In connection therewith I report as follows:

The proposed transfer is from No. 857, Repairs and Replacements by Contract or Open Order, to No. 856, Materials for Repairs and Replacements by Departmental Labor. The Commissioner states that about 37½ cubic yards of material were used for making repairs to the park drives in excess of the quantity provided for in a contract. The $75 will enable the Commissioner to liquidate the outstanding liability against the account for the year.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated to the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1910, as follows:

From

Parks, Manhattan and Richmond, Maintenance, Parks and Boulevards—

857. Repairs and Replacements by Contract or Open Order	$75 00

To

Maintenance, Parks and Boulevards—

856. Material for Repairs and Replacements by Departmental Labor	$75 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

$1,300 within the appropriation made to the Department of Parks, Borough of The Bronx, for the year 1911.

Department of Parks, The City of New York, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, June 28, 1911.

Hon. William J. Gaynor, *Mayor and Chairman, Board of Estimate and Apportionment*, 277 Broadway, New York City:

Sir—At the request of Dr. N. L. Britton, Director of the New York Botanical Garden, application is hereby made for a transfer of thirteen hundred dollars ($1,300) from the appropriation made to the Department of Parks, Borough of The Bronx, for the year 1911, entitled, and as follows:

1150. Maintenance, New York Botanical Garden: Fuel, 1911	$1,000 00
1153. Maintenance, New York Botanical Garden: Forage, shoeing and boarding horses, 1911	300 00

—to the appropriation made to this Department for the year 1911, entitled and as follows:

1147. Maintenance, New York Botanical Garden: General Supplies, 1911	$500 00
1148. Maintenance, New York Botanical Garden: Materials for repairs and replacements by departmental labor, 1911:	500 00
1149. Maintenance, New York Botanical Garden: Repairs and replacements by contract or open order, 1911	300 00

Dr. Britton in his communication stated that the amounts allowed for general supplies, materials for repairs and replacements by departmental labor, and repairs and replacements by contract or open order, are insufficient for the purposes thereof.

On the other hand, for the reason that there is a large quantity of wood available for fuel, caused by the necessary cutting down of dead chestnut trees, a considerable saving can be made in the purchase of coal, making it possible to take some of the money provided for fuel and devote it to the purposes mentioned above. The appropriation for forage also proves to be somewhat larger than is necessary this year, on account of the hay crop, which is now being harvested.

An unusual item of expense has to be provided for this year in the painting of the interior of the great central dome (Palm House) of Conservatory Range No. 1. I find that this has become necessary in order to protect the iron work, which is beginning to rust, and it must be done this year, as a matter of precaution.

Trusting that this request will meet with the approval of your honorable Board, I remain, yours very truly,

T. J. HIGGINS, Commissioner of Parks, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Commissioner of Parks, Borough of The Bronx, requested a transfer of $1,300 within appropriations to the Department for the year 1911. In connection therewith I report as follows:

The requested transfers are within the allowance for the New York Botanical Garden, under the jurisdiction of the Department of Parks, and are made at the request of Dr. N. L. Britton, the Director.

Dr. Britton states that the appropriations for No. 1147, General Supplies; No. 1148, Material for Repairs and Replacements by Departmental Labor, and No. 1149, Repairs and Replacements by Contract or Open Order, are insufficient. He also states that there has been a considerable saving in No. 1150, Fuel, by reason of the cutting out of dead chestnut trees. A saving also has been made in No. 1153, Forage, Shoeing and Boarding Horses, by the harvesting of a heavy crop of hay.

The credit transfers, in the sums of $500 for No. 1147, $500 for No. 1148 and $300 for No. 1149 are to provide for the painting of the interior of the central dome of the Palm House. It is stated that the painting is necessary to protect the iron work from rust.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New ork Charter, the Board of Estimate and Apportionment hereby approves transfers of funds appropriated to the Department of Parks, Borough of The Bronx, for the year 1911, as follows:

From

Parks, Bronx, Maintenance, New York Botanical Garden—

1150. Fuel	$1,000 00
1153. Forage, Shoeing and Boarding Horses	300 00

To

Maintenance, New York Botanical Garden—

1147. General Supplies	$500 00
1148. Material for Repairs and Replacements by Departmental Labor	500 00
1149. Repairs and Replacements by Contract or Open Order	300 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmound—16.

The Secretary presented a communication from the Secretary of the Board of Education, transmitting certified copy of resolution adopted by said Board relative to fixing the compensation of the Janitors of certain school buildings.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

Consideration of the communication from the Corporation Counsel, in response to resolution adopted by the Board on April 6, 1911, requesting that information be furnished the Board in regard to the present status of the suit started by The City of New York against the New York Central and Hudson River Railroad Company for $231,750, with interest, claimed to be due for the past use and occupation of certain lands and lands under water between 60th aund 72d streets, west of 11th avenue, Borough of Manhattan, was laid over one week.

(At the meeting held June 15, 1911, the Corporation Counsel was requested to advise the Board by its next meeting, June 22, 1911, exactly what rights are left the City as the result of the decision of the Court of Appeals in the injunction suit brought by the Railroad Company to restrain the City from interfering with its tracks, etc., and what courses are left open to it, if any.)

(On June 22, 1911, the above matter was laid over for one week at the request of the Corporation Counsel.)

(On June 29, 1911, the matter was again laid over for one week.)

The Secretary presented a communication from the Secretary of the 11th Avenue Track Removal Association relative to taxes due the City by the New York Central and Hudson River Railroad Company.

Which was ordered filed.

The Secretary presented communications as follows:

From the District Attorney of New York County, requesting the issue of $12,212 special revenue bonds (subdivision 7, section 188 of the Charter), to be used in making additions to the professional and administrative force of his office, and for the purchase of desk and other office supplies, which are necessary in order to carry out the provisions of chapters 115 and 516 of the Laws of 1911, which provide for two additional Stenographers to the Grand Jury and four Assistant District Attorneys;

From the Board of Water Supply, requesting approval of the purchase from the Staten Island Rapid Transit Railway Company for $3,000 of an easement in and under Parcel 159, Section 1, City Aqueduct;

From Adrian Sizer, of Washington, D. C., regarding an alleged claim of $651,720, which The City of New York has against the Federal Government for expenses incurred in raising troops during the Civil War;

From the Board of Education, transmitting certified copies of resolutions of said Board relative to the resolutions of the Board of Aldermen, requesting appropriations for general repairs and supplies for classes of anaemic children; and

Resolutions (18) of the Board of Aldermen, requesting issues of special revenue bonds (subdivision 8, section 188 of the Charter), as follows:

$2,500 for the purpose of furnishing, equipping and making alterations in the new offices of the Probation Department, Court of Special Sessions, in the Ashland Building, 24th street and 4th avenue, Manhattan;

$5,000, the proceeds to be used by the District Attorney of Kings County for the purpose of paying the salaries of two additional Assistant District Attorneys, as provided by chapter 309 of the Laws of 1911;

$3,200 for the salaries of sixteen extra Nurses in the Department of Public Charities, for four months, beginning July 1, 1911;

$50,000 for the purpose of regenerating the lawns in Central Park, Department of Parks, Boroughs of Manhattan and Richmond.

$6,300 for the purpose of replenishing the fund for general repairs, Department of Education;

$845 for furnishing certain supplies and equipment for classes of anaemic children, Department of Education;

$473.77, the proceeds to be used by the President of the Borough of The Bronx for the purpose of compensating the Department of Docks and Ferries for the use of a boring machine;

$6,065.51 for the salaries of two Pathologists and for increases in the wages of Deckhands and Steamfitters, Department of Public Charities;

$1,575 for the salaries of three Automobile Enginemen for the last six months of 1911, at the rate of $1,050 per annum each, under the jurisdiction of the President of the Borough of Queens;

$5,274, the proceeds to be used by the Comptroller for the payment of rent of property leased for the use of the various Departments of the County Government;

$5,000 for the wages of an engineering force, for purchasing filing cases and supplies, and for other contingent expenses in connection with the work of locating, recording and mapping subsurface structures in the Borough of Richmond during 1911;

$1,600 for the salaries of four additional Keepers at the Penitentiary, Blackwells Island, from July 1 to December 31, 1911, at $800 per annum, each under the jurisdiction of the Department of Correction;

$200 for placing fire escapes on "Turnbull Mansion," at Bartow-on-the-Sound, under the jurisdiction of the Department of Parks, Borough of The Bronx;

$3,000 for the salary of a Consulting Engineer, Borough of Queens, for the last six months of 1911;

$6,000 for the purchase of street flushing machines for the use of the Bureau of Street Cleaning, Borough of Richmond;

$1,177.25 for the increases in wages of Plumbers and Tinsmiths in the Department of Street Cleaning;

$2,743.58 for the purpose of meeting a deficiency in the salaries account of the Fire Department for 1911;

$319.50 for the increase in salary of the Foreman of Plumbers, Bureau of Public Buildings and Offices, Borough of Queens; and a

Report of the Commissioner of Parks, Boroughs of Brooklyn and Queens, in response to resolution adopted April 13, 1911, requesting the Commissioner to furnish the Board with certain information concerning the construction of a lagoon in Dyker Beach Park, Brooklyn.

Which were referred to the Comptroller.

The Secretary presented communications as follows:

(3) from T. Mortimer Lloyd, M. D., of 125 Pierrepont street, Brooklyn; Miss Marion Libby, Hotel St. George, Brooklyn, and C. S. Davis, of 80 Willoughby street, Brooklyn, urging the Board to grant appropriations to the Departments of Health and Public Charities for increased hospital facilities for tuberculosis cases:

From the Public Service Commission for the First District, requesting the additional issue of $100,000 corporate stock for the acquisition of real estate or interest therein necessary for the construction and operation of the Manhattan-Bronx Rapid Transit Railroad:

From the President of the Borough of The Bronx, transmitting schedule of employees whose time will be charged either wholly or in part, against corporate stock.

Which were referred to the Corporate Stock Budget Committee, consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan.

The Secretary presented a communication from the President of the Borough of The Bronx, relative to adding the position of Estimator to the force of the Building Bureau in each Borough.

Which was ordered filed.

The Secretary presented communications relative to additional rapid transit railways, as follows:

From the Secretary of the City Club of New York, transmitting report of the Transit Committee of the City Club on a proposal for the construction of future subways capable of accommodating trains composed of twenty cars or more;

From the United Real Estate Owners' Associations of The City of New York, containing copy of resolution adopted by said association on June 27, 1911, "demanding that the Board of Estimate and Apportionment and the Public Service Commission drop all negotiations with the existing transit corporations and proceed to immediately award the contracts to the successful bidders of last October";

From Henry S. Wood, submitting proposition for the construction of the proposed 8th avenue subway, etc.; and a

Protest of numerous property owners and merchants of New York against the erection of a third track for the elevated railway system through the Bowery.

Which were referred to the Committee of The Whole.

The Secretary presented the following communication from the Fire Commissioner requesting authority to award a contract for terminal posts to J. F. Pennell, other than the lowest bidder, for $20,177.10, together with a report of the Comptroller. to whom this application was referred June 29, 1911, recommending that said request be denied:

Fire Department of the City of New York, Office of the Commissioner, June 9, 1911.

Hon. William A. Prendergast, *Comptroller:*

Sir—At public letting on May 25, 1911, bids were submitted for furnishing terminal posts and terminal boxes in accordance with Fire Department specifications approved by the Board of Estimate and Apportionment by the following bidders:

Name.	Terminal Posts.	Terminal Boxes.
J. L. Mott Iron Works	$21,091 25	$4,950 00
Trenton Foundry and Machine Company	19,461 25	....
J. F. Pennell	20,177 10	4,716 00
Frederick Pearce Company	23,479 00	4,385 00
Western Electric Company	....	4,506 00

The bids were referred to Mr. J. C. Rennard, electrical engineer, for his recommendation, and Mr. Rennard's report submitted thereon is as follows:

"May 29, 1911.

"In connection with the proposals recently opened for furnishing fire alarm signal and lamp posts and terminal boxes for installation in the Boroughs of Manhattan and Brooklyn under C-F D-3B and C-F D-22, I beg to report as follows:

"The lowest bid for the fire alarm signal and lamp-posts was submitted by the Trenton Foundry and Machine Company in the amount of $19,461.25 for the five hundred posts to be furnished. The next higher bid, in the amount of $20,177.10, was by J. F. Pennell, of 45 Broadway. This bid being, therefore, $715.85 higher than the lowest bid submitted.

"I believe it to be for the best interests of the City to award the contract to J. F. Pennell at the additional cost of $715.85 for the reason that I do not believe the Trenton Foundry and Machine Company will furnish satisfactory posts or make satisfactory deliveries.

"E. H. Jonson, who has recently become Vice-President and General Manager of the Trenton Foundry and Machine Company, signed a contract under his own name November 12, 1910, for furnishing a certain number of fire alarm box keyless doors and fire alarm box shells to the Department, delivery to be made by December 31. The time for the delivery of this material was twice extended, the last extension expiring February 10, 1911. This material has not yet been satisfactorily completed.

"On December 28, an open market order for frames for fire alarm signal posts was placed with E. H. Jonson, in the amount of $120, the frames to be delivered in thirty days. At the expiration of this time Mr. Jonson was communicated with in reference to delivery and stated that he had never received the order for the material, although such order was duly mailed. A duplicate order was sent him March 2, 1911, and on April 18 this order was canceled for non-delivery of material.

"On March 14, an order was given to the Trenton Foundry and Machine Company for furnishing twenty "Old Style" frames for fire alarm lamp-posts, in the amount of $149, delivery to be made in thirty days from receipt of order. No deliveries have yet been made on this contract, although the Department has repeatedly been advised by Mr. Jonson that deliveries would be made in a few days.

"Considerable material offered by Mr. Jonson on his contract, dated November 12, 1910, was rejected on account of poor workmanship and poor material.

"The lowest bidder for the five hundred terminal boxes was the Frederick Pearce Company, in the amount of $4,385. This firm have always satisfactorily fulfilled their contracts with the Department and I recommend that the order for the terminal boxes be placed with them.

"Should you approve my recommendation to award the contract for the fire alarm signal and lamp-posts to J. F. Pennell, the total expenditure for the terminal posts and boxes would be $24,562.10, an amount of $562.10 greater than the estimated cost when specifications were approved by the Board of Estimate and Apportionment for this work."

"June 9, 1911.

"Since the preceding report was submitted the Trenton Foundry and Machine Company delivered on June 7 twenty "Old Style" frames, referred to above, for which an order was given them on March 14. These frames have been inspected and are found to be not in accordance with sample, defective in several particulars, unsuitable for use and have been rejected."

I have approved the recommendations contained in the report for the reasons stated, and respectfully request authority to award the contract for the terminal posts to J. F. Pennell, the next lowest bidder, in the amount of $20,177.10, the amount of his estimate, and for the terminal boxes to the Frederick Pearce Company, the lowest bidder, in the amount of $4,385.

In approving the specifications for this work the Board of Estimate and Apportionment, on March 30, authorized an expenditure of not exceeding $24,000. As this amount is not sufficient, I request that the resolution be amended by increasing the authorized expenditure by $562.10, a total of $24,562.10, of which $14,737.26 should be changed C-FD-3B and $9,824.84 to C-FD-22.

The early action of the Board of Estimate and Apportionment in this matter is requested, as this equipment is necessary for the maintenance of the fire alarm telegraph system. Respectfully JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In a communication dated June 9, 1911, the Fire Commissioner requested authority to award a contract for terminal posts to J. F. Pennell, whose bid of $20,177.10 was next to the lowest, but $715.85 higher than the lowest, when bids were opened on May 25, 1911.

The low bid was $19,461.25, and was submitted by the Trenton Foundry and Machine Compaany.

The Fire Commissioner gives as his reasons for wishing to reject this low bid and award the contract to the next lowest bidder a statement, in the form of a report from Mr. J. C. Rennard, Electrical Engineer in the Department, which, in part, reads as follows:

"I believe it to be for the best interests of the City to award the contract to J. F. Pennell at the additional cost of $715.85 for the reason that I do not believe the Trenton Foundry and Machine Company will furnish satisfactory posts or make satisfactory deliveries.

"E. H. Jonson, who has recently become Vice-President and General Manager of the Trenton Foundry and Machine Company, signed a contract under his own name, November 12, 1910, for furnishing a certain number of fire alarm box keyless doors and fire alarm box shells to the Department, delivery to be made by December 31. The time for the delivery of this material was twice extended, the last extension expiring February 10, 1911. This material has not yet been satisfactorily completed.

"On December 28 an open market order for frames for fire alarm signal posts was placed with E. H. Jonson, in the amount of $120, the frames to be delivered in thirty days. At the expiration of this time, Mr. Jonson was communicated with in reference to delivery and stated that he had never received the order for the material, although such order was duly maailed. A duplicate order was sent him March 2, 1911, and on Aprirl 18 this order was cancelled for non-delivery of material.

"On March 14 an order was given to the Trenton Foundry and Machine Company for furnishing twenty 'Old Style' frames for fire alarm lamp posts, in the amount of $149.00, delivery to be made in thirty days from receipt of order. No deliveries have yet been made on this contract, although the Department has repeatedly been advised by Mr. Jonson that deliveries would be made in a few days.

"Considerable material offered by Mr. Jonson on his contract, dated November 12, 1910, was rejected on account of poor workmanship and poor material."

The Fire Commissioner noted in his communication that since Mr. Rennard's report was submitted, the twenty "Old Style" frames, referred to in the report, had been delivered on June 7, and that the frames had been inspected and found to be not in accordance with sample, defective in several particulars and unsuitable for use. On the day the frames were delivered they were rejected and the order cancelled.

It will be noted that the only complaint against the Trenton Foundry and Machine Company is that based on the open market order for twenty "Old Style" frames to cost $149. All other complaints are directed against E. H. Jonson, who has recently become Vice-President and General Manager of the Trenton Foundry and Machine Compaany.

The Trenton Foundry and Machine Company made a written offer to make entirely new castings or to change the frames delivered on June 7 to meet the requirements of the Inspector of the Fire Department.

However, the company had no opportunity to correct any defects in the castings, as the order had already been cancelled and a new order given to another concern.

The Department of Finance has made a very thorough investigation of this matter. I find that the Fire Commissioner is seeking to reject the low bid of a company which has a plant in operation in Trenton, N. J., and to award the contract, amounting to more than $20,000, to a man who has no foundry or manufacturing plant whatsoever. The only evidence submitted by the Fire Commissioner to justify this action is the unsatisfactory work performed on the small order for frames referred to above.

The Trenton Foundry and Machine Company has been the lowest bidder on two biddings for this same contract for terminal posts. Bids were opened the first time on May 8, 1911. At the same time bids were opened for terminal boxes. Four bids were received. Two bids were for boxes only, one for both boxes and posts, and one for posts only. The two bids for posts were as follows:

Trenton Foundry and Machine Company	$20,241 25
J. L. Mott Iron Works	24,421 00

The Trenton Foundry and Machine Company was the low bidder on posts by more than $4,000, but it did not get the contract on the ground that the J. L. Mott Iron Works bid was informal, in that it proposed to finish delivering the posts within 200 working days, whereas the specifications called for 160 working days.

The bids of the Trenton Foundry and Machine Company were in due form and in accordance with the specifications.

The Trenton Company's bid was thrown out because the Mott Company's bid was adjudged informal, and, according to Mr. Rennard, it was not considered advisable to let the contract on this work on only one bid.

(That it was not the practice in the Fire Department to re-advertise when only one bid was received was made an evident fact at that time by the request before the Board of Estimate and Apportionment made by the then Fire Commissioner to award a contract for more than $5,000 in excess of the approved estimate of cost in a case where only one bid was received. This was the matter of two aerial hook and ladder trucks of self-propelling design. The Webb Motor Fire Apparatus Company was the only bidder. It bid $25,200 on the two trucks. The Board of Estimate and Apportionment had approved an estimate of cost of only $20,000 for the two trucks. Instead of throwing out the bid on the ground that it was the only one received, the Fire Commissioner requested permission to exceed the approved estimate of cost and award the contract to the Webb Company.)

The contract for terminal posts and terminal boxes was re-advertised and bids were opened again on May 25, 1911. At that time there were four bidders for the posts, as follows:

J. L. Mott Iron Works	$21,091 25
Trenton Foundry and Machine Company	19,461 25
J. F. Pennell	20,177 10
Frederick Pearce Company	23,479 00

It should be noted that on the second advertising the specification regarding the time of delivery was changed to 200 days, the time stated in the so-called informal bid of J. L. Mott Iron Works, submitted May 8, 1911.

Four days after the second opening of bids Mr. Rennard made his report, recommending the rejection of the Trenton Foundry and Machine Compaany bid and the award of the contract to J. F. Pennell. That report was made about two weeks before the rejection of the twenty "Old Style" frames, which rejection is now urged as one of the reasons why the contract should not go to the Trenton Foundry and Machine Company.

Mr. Rennard's report is directed chiefly against Mr. E. H. Jonson individually. He cites two instances of small orders in which unsatisfactory deliveries were made. Mr. Jonson states that in these two cases he accepted open market orders and turned them over to the H. E. Boucher Manufacturing Company, of 20 Fulton street, Manhattan. At that time Mr. Jonson had no plant of his own, and had to rely upon the foundries and manufactories with which he had no immediate connection.

It is a conceded fact that Mr. Jonson had nothing to do with the work of manufacture in either of these cases, except that he turned the orders over to the Boucher Company. Even if it were shown that Mr. Jonson as an individual had failed to make prompt deliveries on open market orders, that could hardly be regarded as a valid reason for rejecting the bid of the company with which Mr. Jonson has only recently become connected. The Trenton Foundry and Machine Company could not fairly be blamed for the business conduct of one of its officers before that officer had any connection with the company. However, I have caused an investigation to be made of the business career of Mr. Jonson, and find that, for a long period, while operating as Julius Jonson's Sons, he had large contracts with some of the most important corporations in this country.

I have received a communication from the Standard Underground Cable Company, signed C. J. Marsh, General Manager, Eastern and Northeastern Sales Department, in regard to that company's experience with Mr. Jonson before and since he became connected with the Trenton Foundry and Machine Company. The communication gives a list of the orders placed with the Trenton company since Mr. Jonson became its Vice-President and General Manager. In every case deliveries were made on time, or ahead of time. In fact, in every case, except one, shipments were made ahead of the time promised. The Standard Underground Cable Company closes its letter, as follows:

"This company has been placing orders, and many of them, with E. H. Jonson, and earlier with his father, covering a period of twenty to twenty-five years, and we are pleased to say that we have not one word of complaint to make. The writer, also, about fifteen or sixteen years ago, or prior to his connection with this company, had considerable business transactions with Mr. E. H. Jonson and his father, as Treasurer and Manager of the Brush Electric Illuminating Company, 210 Elizabeth street, this City, and all of those transactions, as I recall them, were entirely satisfactory both as to material furnished and delivery of same."

There appears to be no good reason why the bid of the Trenton Foundry and Machine Company should be rejected. Even if the Trenton Foundry and Machine Company were not well equipped with a good plant, it would seem to be bad business policy to take a contract from the lowest bidder and give it to the next to the lowest bidder unless there were very strong reasons to justify such a course.

In this case if the request of the Fire Commissioner were granted, the contract would be taken from a company with a plant in operation and given to a broker in iron and steel castings who has no plant at all. Mr. Pennell, the next to the lowest bidder, states that if the contract is awarded to him he will have the work done by the Kuebler Foundries, Incorporated, of Easton, Pa. The Kuebler Company is reported to be a highly reputable and responsible concern, but the City's contract would not be with that company but with Mr. Pennell.

The Trenton Foundry and Machine Company has shown a willingness to do its utmost to guarantee the City against any loss in case the company should be awarded the contract. The company, in a communication dated June 17, states that it would be glad to furnish not only the $10,000 bond required, but a bond equal in amount to the bid of J. F. Pennell. If this offer were accepted, the contract would be secured by a bond of $715.85 in excess of the amount of the contract.

I recommend that the request of the Fire Commissioner be denied.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the request of the Fire Commissioner, contained in a communication dated June 9, 1911, for authority to award the contract for furnishing terminal posts to J. F. Pennell, at his bid of twenty thousand one hundred and seventy-seven dollars and ten cents ($20,177.10), being next to the lowest bidder, be and the same is hereby denied.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Docks and Ferries requesting and report of the Comptroller, recommending the modification of Salary Schedule No. 194, supporting the appropriation made in the Budget for the year 1911, for said Department, by changing the number of working days for pipefitters from 312 to 365, and of painters from 365 to 312:

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, June 19, 1911.

Hon. William J. Gaynor, *Mayor and Chairman of the Board of Estimate and Apportionment:*

Sir—It is necessary to have a modification of Code 194—Mechanical and Labor Force, engaged on repairs—by increasing the number of days of Pipefitters from 312 to 365 and by reducing the five Painters from 365 to 312 days. This change is made necessary for the reason that the Pipefitters are employed every day in the year, Sundays being the most important day their services are required. The Pipefitters were originally in the schedule for 365 days but the number of days were reduced to 312 when their pay was increased from $5.00 to $5.50 per day, the change being made in order to render unnecessary the issue of revenue bonds to meet the increased compensation.

The Painters have not worked on Sundays since the beginning of this year.

I respectfully request that the 1911 Budget be modified as above.

Yours respectfully, CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Invesigation and Statistics, June 27, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 19, 1911, the Commissioner of Docks requested modification of Schedule No. 194, Bureau of Ferries, Maintenance, Mechanical and Labor Force Engaged on Repairs, Wages, Regular Employees, supporting appropriations for the Department of Docks and Ferries for the year 1911. In connection therewith, I report as follows:

It is proposed to increase the number of working days for Pipe Fitters from 312 to 365, by decreasing Painters from 365 to 312 days. The Commissioner states that the change is necessary as Pipe Fitters are employed every day in the week, while Painters are not.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
194.	Pipe Fitters, 3 at $5.50 per diem, 312 days	$5,148 00	....	$2,904 00	....
	Pipe Fitters, 3 at $5.50 per diem, 365 days	....	$6,022 50	....	$3,399 00
	Painters, 5 at $4 per diem, 365 days	7,300 00	....	4,120 00	....
	Painters, 5 at $4 per diem, 312 days	....	6,240 00	....	3,520 00
	Unassigned	....	185 50	....	105 00
		$12,448 00	$12,448 00	$7,024 00	$7,024 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Docks and Ferries for the year 1911, to become effective as of June 9, 1911, as follows:

Department of Docks and Ferries.

Bureau of Ferries, Maintenance, Mechanical and Labor Force Engaged on Repairs—

194. Wages, Regular Employees:

Pipefitters, 3 at $5.50 per day (365 days)	$6,022 50
Pipefitters' Helpers, 2 at $3 per day (365 days)	2,190 00
Ship Carpenters, 4 at $4 per day (365 days)	5,840 00
Dock Builders, 8 at $3.50 per day (365 days)	10,220 00
Foreman Dock Builder, 1 at $4.50 per day (365 days)	1,642 50
Machinists, 7 at $4.50 per day (365 days)	11,497 50
Machinists' Helpers, 6 at $3 per day (365 days)	6,570 00
Foreman Wireman	1,500 00
Wireman, 1 at $4.50 per day (365 days)	1,642 50
Carpenters, 3 at $4.80 per day (365 days)	5,256 00
Foreman House Painter, 1 at $5 per day (365 days)	1,825 00
Painters, 5 at $4 per day (312 days)	6,240 00
Letterer, 1 at $4 per day (365 days)	1,460 00
Riggers, 2 at $3.50 per day (365 days)	2,555 00
Blacksmith, 1 at $4.50 per day (365 days)	1,642 50
Blacksmith's Helper, 1 at $3 per day (365 days)	1,095 00
Tinsmith and Roofer, 1 at $4.75 per day (365 days)	1,733 75
Unassigned	421 25
	$69,353 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Secretary of the Board of Municipal Justices requesting, and report of the Comptroller recommending, the modification of salary schedules Nos. 1429 and 1435, supporting the appropriation made in the Budget for the year 1911, for the Municipal Courts, providing for the transfer of an Assistant Clerk at $3,000 per annum from the Second District to the Fifth District Court, Manhattan, involving the transfer of $1,500:

Municipal Court of the City of New York, Board of Justices, New York, June 12, 1911.

Joseph Haag, Esq., Secretary Board of Estimate and Apportionment:

Dear Sir—Pursuant to a resolution adopted at a meeting of the Board of Justices, Municipal Court, City of New York, held on Monday, June 5, 1911, application is hereby made to the Board of Estimate and Apportionment for the modification of the Schedule of Salaries accompanying the Budget for the year 1911, by increasing the number of Assistant Clerks in the Fifth District Municipal Court, Borough of Manhattan and decreasing the number of Assistant Clerks in the Second District Municipal Court of the same Borough by one incumbent, said change to become operative on and after July 1, 1911.

In order to meet the change in schedule, request is also made for the transfer of the sum of fifteen hundred ($1,500) dollars from the appropriation of salaries for the Second District Municipal Court, to that of salaries for the Fifth District Court, Borough of Manhattan.

The purpose of making this request is to provide for the salary of an Assistant Clerk who has been transferred from the Second District to the Fifth District Municipal Court, Borough of Manhattan. Respectfully yours,

JAMES J. DEVLIN, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 27, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1911, the Secretary of the Board of Justices of the Municipal Courts requested the modification of two salary schedules supporting appropriations to the courts for the year 1911, and involving the transfer of $1,500. In connection therewith, I report as follows:

The modification provides for the transfer, without change in compensation, of an Assistant Clerk from the Second District to the Fifth District Municipal Court, Manhattan. The Board of Justices has approved the transfer. The $1,500 transfer is for the six months from July 1 to December 31, 1911.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
1429.	Assistant Clerks, 10 at $3,000.	$3,000 00	....	$1,500 00	....
1435.	Assistant Clerks, 2 at $3,000..	....	$3,000 00	....	$1,500 00

I recommend that the request be approved by the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Municipal Courts, City of New York, for the year 1911, as follows:

Municipal Courts, City of New York.

Borough of Manhattan, Second District Court—

1429. Salaries:

Justices, 4 at $8,000	$32,000 00
Clerk	3,000 00
Deputy Clerk	3,000 00
Assistant Clerks, 9 at $3,000	27,000 00
Stenographers, 4 at $2,000	8,000 00
Interpreters, 5 at $1,500	7,500 00
Attendants, 16 at $1,500	24,000 00
	$104,500 00

Borough of Manhattan, Fifth District Court—

1435. Salaries:

Justices, 3 at $8,000	$24,000 00
Clerk	3,000 00
Deputy Clerk	3,000 00
Assistant Clerks, 3 at $3,000	9,000 00
Stenographers, 3 at $2,000	6,000 00
Interpreter	1,500 00
Attendants, 5 at $1,500	7,500 00
	$54,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Municipal Courts, City of New York, for the year 1911, as follows:

From

Borough of Manhattan, Second District Court—

1429. Salaries $1,500 00

To

Borough of Manhattan, Fifth District Court—

1435. Salaries $1,500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending, the modification of Salary Schedules Nos. 962 and 968 supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the elimination of the position of Superintendent of Buildings at $3,000 per annum in the Bureau of Repairs and Supplies, Manhattan, The Bronx and Richmond, and adding two Inspectors of Blasting at $1,500 each per annum in the Bureau of Combustibles, involving the transfer of $1,500, said modification to take effect as of July 1, 1911:

Fire Department of The City of New York, Office of the Commissioner, June 9, 1911.

Hon. William J. Gaynor, *Mayor, and Chairman Board of Estimate and Apportionment:*

Sir—I have the honor to request revision and modification of schedules supporting appropriations made to this Department, Boroughs of Manhattan, The Bronx and Richmond, for the current year, entitled "962, Bureau of Combustibles, Salaries," and "968, Bureau of Repairs and Supplies, Salaries," by incorporating in the first mentioned provision for "Inspectors of Blasting, 2 at $1,500," and eliminating from the last mentioned the position of "Superintendent of Buildings, $3,000"; also that the necessary transfer of appropriation be made in connection therewith.

In compliance with request of this Department the Board of Estimate and Apportionment, on May 4, 1911, adopted a resolution recommending the establishment in this Department of the position of Inspector of Blasting for two incumbents at $1,500 per annum each. This resolution was concurred in by the Board of Aldermen May 16, 1911, and became effective without the approval or disapproval of the Mayor June 6, 1911. No additional expense is involved, as the position of Superintendent of Buildings has been vacant since December 1, 1910, and it is not the purpose to fill the same. Respectfully, JOS. JOHNSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 9, 1911, the Fire Commissioner requested modifications of two salary schedules supporting appropriations to his Department for the year 1911, involving the transfer of $1,500. In connection therewith, I report as follows:

It is proposed to eliminate the position of Superintendent of Buildings, at $3,000 per annum, in No. 968, Bureau of Repairs and Supplies, Manhattan, The Bronx and Richmond, and add two Inspectors of Blasting, at $1,500 each, in No. 962, Bureau of Combustibles, Manhattan, The Bronx and Richmond. It is stated that the Inspectors of Blasting are needed for the inspection of depositories of blasting explosives and the supervision of blasting operations.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
962.	Inspectors of Blasting, 2 at $1,500	....	$3,000 00	....	$1,500 00
968.	Superintendent of Buildings	$3,000 00	....	$1,500 00	....

I recommend the adoption of the attached resolutions approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Fire Department for the year 1911, to be effective as of July 1, 1911, as follows:

Fire Department.

General Administration, Manhattan, The Bronx and Richmond, Bureau of Combustibles—

962. Salaries:

Inspector of Combustibles	$3,000 00
Cashier	2,000 00
Oil Surveyors, 16 at $1,500	24,000 00
Inspectors of Blasting, 2 at $1,500	3,000 00
Stenographer and Typewriter	1,500 00

Clerk	1,500 00
Clerk	1,200 00
	$36,200 00

Bureau of Repairs and Supplies—

968. Salaries:

Clerk	$2,100 00
Clerk	1,800 00
Clerk	1,650 00
Clerks, 3 at $1,200	3,600 00
Clerks, 4 at $900	3,600 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Storekeeper	1,500 00
	$16,500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Fire Department for the year 1911, as follows:

From

General Administration, Manhattan, The Bronx and Richmond, Bureau of Repairs and Supplies—

968. Salaries	$1,500 00

To

General Administration, Manhattan, The Bronx and Richmond, Bureau of Combustibles—

962. Salaries	$1,500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Richmond requesting, and report of the Comptroller relative to, the modification of Salary Schedule No. 1921, supporting the appropriation made in the Budget for the year 1911, for the office of said Borough President, to take effect as of July 1, 1911, providing for the increase in salary of the Assistant Superintendent of the Bureau of Street Cleaning from $1,500 to $1,800 per annum, for the elimination of a Clerk at $1,200 per annum and the substitution of a Typewriting Copyist at $900 per annum:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 16, 1911.

Board of Estimate and Apportionment, 277 Broadway, New York:

Dear Sirs—I would request a modification of Salary Schedule No. 1921, supporting the appropriation made in the Budget for the year 1911, office of the President of the Borough of Richmond, Bureau of Street Cleaning, fixing the salary of Assistant Superintendent at $1,800 per annum, rescinding the title of Clerk at $1,200 per annum, and replacing it by Typewriter Copyist at $900 per annum. The foregoing changes involve no additional appropriation.

In explanation of the modification requested I would state that on May 4, 1911, the Board of Estimate and Apportionment established the grade of Assistant Superintendent of Street Cleaning for one incumbent at $1,800 per annum, and the Board of Aldermen approved and concurred in the action of the Board of Estimate on June 13, 1911 (City Record, page 5238, issue of June 15, 1911). It will not be possible to promote the Assistant Superintendent to the new grade and appoint a Typewriter Copyist from the Civil Service list until the foregoing modification in salary schedule is approved, and as the time is near at hand when the Board will adjourn for the summer vacation, I would ask, if possible that the modifications be made before the final meeting in July. Yours truly,

GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 27, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 16, 1911, the President of the Borough of Richmond requested modification of the 1911 salary schedule for the Bureau of Street Cleaning, Administration. In connection therewith I report as follows:

On June 13, 1911, the Board of Aldermen approved of the establishment of the grade of position of Assistant Superintendent, at $1,800 per annum. It is proposed, therefore, to provide for an increase for the present incumbent from the rate of $1,500. The $300 necessary for the increase is to be provided by striking out a Clerk, at $1,200, and substituting a Typewriting Copyist, at $900 per annum. The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
1921.	Assistant Superintendent, at $1,500	....	$1,500 00	....	$750 00
	Assistant Superintendent, at $1,800	$1,800 00	....	$900 00	....
	Clerk, 1 at $1,200	....	1,200 00	....	600 00
	Typewriting Copyist, at $900.	900 00	....	450 00	....
		$2,700 00	$2,700 00	$1,350 00	$1,350 00

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Richmond, for the year 1911, to take effect July 1, as follows:

President, Borough of Richmond.

Bureau of Street Cleaning, Administration—

1921. Salaries:

Assistant Engineer (Acting Superintendent)	$3,000 00
Assistant Superintendent	1,800 00
Clerk	1,800 00
Clerk	1,650 00
Clerk	1,200 00
Typewriting Copyist	900 00
	$10,350 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bellevue and Allied Hospitals requesting, and report of the Comptroller recommending, the modification of Salary Schedules Nos. 215, 217, 219, 221 and 226, supporting the appropriation made in the Budget for the year 1911, said Department, providing for an Assistant Superintendent of Training Schools at $1,200 per annum; for the elimination of a Clerk at $900 per annum; for the transfer of a Trained Nurse at $600 per annum, and of a Hospital Helper at $180 per annum from one schedule to another, and for changing the title of a Hospital Helper at $480 per annum to Laundress at the same rate, involving transfers of $525 and $455, said modification to be effective as of June 1, 1911:

Bellevue and Allied Hospitals, Office of the Board of Trustees, 1st Avenue and 26th Street, New York, June 14, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment,* 277 Broadway,
New York City:

Sir—The Trustees of Bellevue and Allied Hospitals have the honor to request the Board of Estimate and Apportionment to amend the schedules of salaries and wages of this Department for the year 1911 in accordance with the schedules attached. The changes therein do not involve any additional expenditure and are made to meet the present needs of the Department. The principal change is in the utilization of $900 in a vacant clerkship, together with an unassigned balance of $300, to provide for an Assistant Superintendent of Training School, who is to take charge of the new school for Hospital Attendants which is now being organized. The place of Assistant Superintendent was originally provided in the Budget for 1911, but was temporarily discontinued in March.

To meet these modifications it is requested that transfers of funds be made as follows:

From	
215. Salaries	$900 00
To	
217. Salaries	$900 00
From	
219. Wages, Temporary Employees	$780 00
To	
221. Wages, Temporary Employees	$180 00
226. Wages, Temporary Employees	600 00
	$780 00

Respectfully, J. K. PAULDING, Secretary, Board of Trustees.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 14, 1911, the Board of Trustees of Bellevue and Allied Hospitals requested modification of five schedules of salaries and wages in the Department for the year 1911, involving the transfer of $980. I report thereon as follows:

In No. 217, Bellevue Hospital, Operation and Maintenance, Salaries, an Assistant Superintendent of Training Schools, at $1,200 per annum, is asked for, to have charge of the new school for Hosiptal Attendants. The necessary funds are to be provided by dropping a Clerk, at $900 per annum, in No. 215, Bellevue Hospital, Administration, and by transfer of $300 from an unassigned balance in No. 217.

It is proposed to transfer a Trained Nurse, at $600 per annum, from No. 219, Bellevue Hospital, Operation and Maintenance, Wages, Temporary Employees, to No. 226, Gouverneur Hospital, Operation and Maintenance. The Nurse is employed on the Tuberculosis Day Camp "Westfield," at Gouverneur Hospital. A Laundress on the payroll as a Hospital Helper, at $480 per annum, in No. 219, is to be given the proper title. A Hospital Helper, at $180 per annum is to be transferred from No. 219 to No. 221, Bellevue Hospital, Nurses' Residence.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
215.	Clerk (Employment Agent) at $900	$900 00	....	$525 00	....
217.	Assistant Superintendent of Training Schools, at $1,200	....	$1,200 00	....	$700 00
	Unassigned balance	300 00	....	175 00	....
219.	Trained Nurses, at $70,600	600 00	....	350 00	....
	Laundresses, at $5,880	....	480 00	....	280 00
	Hospital Helper, at $90,500	660 00	....	385 00	....
221.	Hospital Helpers, at $5,988	....	180 00	....	105 00
226.	Trained Nurses, at $10,226	....	600 00	....	350 00
		$2,460 00	$2,460 00	$1,435 00	$1,435 00

No increase in compensation is involved. I recommend that the request be granted by the adoption of the attached resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Bellevue and Allied Hospitals, for the year 1911, to become effective as of June 1, 1911, as follows:

Department of Bellevue and Allied Hospitals.

Bellevue Hospital, Administration—

215. Salaries:

Assistant Medical Superintendent	$3,500 00
Assistant Medical Superintendent	2,500 00
Assistant Superintendent	2,000 00
Chaplains, 4 at $450	1,800 00
Clerk	600 00
Hospital Clerks, 2 at $900	1,800 00
Hospital Clerk	720 00
Hospital Clerks, 2 at $600	1,200 00
Hospital Clerk	540 00
Hospital Clerk	480 00
Typewriting Copyist	600 00
Investigator	1,200 00
Trained Nurse (social service)	900 00
	$17,840 00

Bellevue Hospital, Operation and Maintenance—

217. Salaries:

Resident Physician	$4,000 00
Assistant Resident Physician	1,500 00
Assistant Alienists, 2 at $2,100	4,200 00
Pathologist	1,800 00
Pathologists, 2 at $1,500	3,000 00
Admitting Physicians, 3 at $1,000	3,000 00
Physicians to Out-Patients, 3 at $600	1,800 00
Physicians to Out-Patients, 5 at $300	1,500 00
X-Ray Photographer	1,800 00
Instructors in Anæsthesia, 4 at $750	3,000 00
Apothecary	1,200 00
Apothecaries, 2 at $900	1,800 00
Stenographers, 2 at $900	1,800 00
Clerk	900 00
Hospital Clerks, 2 at $480	960 00
Superintendent of Training School	1,800 00
Assistant Superintendent of Training Schools	1,200 00
Interpreter	1,000 00
Inspector	720 00
Unassigned balance	10 00
	$36,990 00

219. Wages, Temporary Employees:

Trained Nurses	$70,000 00
Pupil Nurses	17,328 00
Head Pupil Nurses	3,000 00
Orderlies	1,320 00
Seamstresses	1,464 00
Cooks	4,680 00
Waitresses	2,940 00
Waiters	1,020 00
Laundrymen	3,000 00
Laundresses	6,360 00
Hospital Helpers	89,840 00
	$200,952 00

Bellevue Hospital, Nurses' Residence—

221. Wages, Temporary Employees:

Laundresses	$2,952 00
Waitresses	2,328 00
Hospital Helpers	6,168 00
	$11,448 00

Gouverneur Hospital, Operation and Maintenance—

226. Wages, Temporary Employees:

Trained Nurses	$10,826 00
Pupil Nurses	4,752 00
Cooks	1,812 00
Laundresses	1,320 00
Hospital Helpers	15,960 00
	$34,670 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Bellevue and Allied Hospitals for the year 1911, as follows:

From

215. Bellevue Hospital, Administration, Salaries	$525 00

To

217. Bellevue Hospital, Operation and Maintenance, Salaries	$525 00

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Bellevue and Allied Hospitals for the year 1911, as follows:

From

219. Bellevue Hospital, Operation and Maintenance, Wages, Temporary Employees	$455 00

To

221. Bellevue Hospital, Nurses' Residence, Wages, Temporary Employees	$105 00
226. Gouverneur Hospital, Operation and Maintenance, Wages, Temporary Employees	350 00

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Comptroller recommending that the request of the Board of Aldermen for an issue of $7,235.74 special revenue bonds (subdivision 8, section 188 of the Charter), "in lieu of the unassigned balance of the same amount in Wages, Regular Employees, Account 1829, President of the Borough of Queens, Bureau of Highways, Maintenance of Highways, Budget for 1911," to provide for the payment of salaries of six Foremen assigned as General Foremen in the Bureau of Highways, be disapproved, for the reason that an allowance was made in the Budget for 1911, Account 1830, for the salaries of these six Foremen, which also provides for a ratio of 1 to 7½ for Foremen of Laborers, Bureau of Highways, Borough of Queens, whereas the ratio in other Boroughs is about 1 Foreman to 9 Laborers.

Which was laid over.

(On June 8, 1911, the above resolution was referred to the Comptroller.)

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of $1,500 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the employment of Temporary Copyists by the County Clerk of Richmond County; also recommending approval of a schedule for said fund:

(On April 6, 1911, the resolution of the Board of Aldermen, requesting the above appropriation, was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand five hundred dollars ($1,500), the proceeds whereof to be used by the County Clerk of Richmond County for the purpose of employing Temporary Copyists.

Adopted by the Board of Aldermen March 14, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor March 28, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, May 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a resolution of the Board of Aldermen on March 14, 1911, requesting special revenue bonds to the amount of $1,500, the proceeds to be used by the County Clerk of Richmond County for the purpose of employing Temporary Copyists, I report as follows:

The $1,500 is estimated to be necessary to bring the recording in the office up-to-date. Chapter 513 of the Laws of 1909 changed the office from a fee to a salary basis. Up to January 1, 1910, when the law become operative, the recording was complete. Since that date the work has fallen in arrears to the extent that at present deeds and mortgages to the number approximately of 2,000 are uncopied. It therefore appears that coincident with the establishment of the office on a salary basis, the current work of copying has fallen steadily behind.

In the course of an examination under the direction of the Comptroller, a test was made by the County Clerk of the efficiency of the Clerks copying record deeds, mortgages, etc. The test indicated that the number of Clerks is sufficient for the current work, but not enough to lessen the amount in arrears.

Those who have filed and paid fees for recording instruments, deeds, mortgages, etc., are entitled to a prompt return of the papers and office delays should not operate to their disadvantage. It would therefore appear that action should at once be taken to clear the office of the arrears. The uncopied instruments approximate 30,000 folios and the $1,500 would be sufficient. This is estimated on compensation at the rate of 5 cents per folio, the rate for similar work in the office of the Register of Kings County.

I recommend the adoption of the attached resolutions granting the request and approving a schedule for the fund. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on March 14, 1911, requesting an issue of special revenue bonds in the sum of one thousand five hundred dollars ($1,500), the proceeds whereof to be used by the County Clerk of Richmond County for the purpose of employing Temporary Copyists, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one thousand five hundred dollars ($1,500), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for employees other than those paid from Budget funds, in the office of the County Clerk, Richmond County, as follows:

County Clerk, Richmond County.

Revenue Bond Force—

Compensation of Temporary Employees:

Copyists, at 5c. per folio	$1,500 00

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the Public Service Commission for the First District, requesting, and report of the Comptroller recommending, an issue of $170,000 special revenue bonds (section 10, chapter 4, Laws of 1891, and section 14, chapter 429 of the Laws of 1907, as amended) for the following purposes:

For the payment of the general expenses of the Public Service Commission, for the First District, in connection with new work relative to additional transportation facilities	$100,000 00
For securing borings along the various routes wherever it is expected that construction will be had	70,000 00
	$170,000 00

(On June 22, 1911, the request of the Public Service Commission for the above appropriation was referred to the Comptroller.)

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, June 16, 1911.

To the Board of Estimate and Apportionment of The City of New York:

Sirs—On December 9, 1910, the Public Service Commission for the First District made requisition for $946,316, deemed requisite and necessary for the expenses of the Commission for the year 1911. Upon the request of the Comptroller of the City data was furnished to him in the form of supporting schedules. This made necessary a further requisition for $38,877.45. Your Board accordingly made an appropriation of $985,193.45.

The Commission stated in its communication of December 9, 1910, the purposes for which the appropriation was deemed requisite and necessary.

The Commission further stated: "No estimate can be made at this time, and additional requisition may hereafter be necessary for expenses for the proceedings to secure the necessary legal consent for rapid transit routes and changes in such routes and for the acquisition of real estate and other rights necessary to rapid transit construction, for the necessary printing and advertising required by law to secure bidders for rapid transit routes and for the clerical, legal and engineering force necessary if contracts are made during the year for additional rapid transit routes not now under contract, or for the extensive preparation of new plans."

Your Board now has before it a report by a subcommittee appointed to consider the matters presented in the communication of the Commission of December 20, 1910, relative to additional transportation facilities. Should your Board take action advising the Commission in such a way that immediate progress can be made in the preparation of plans and contracts for additional facilities, the Commission will be under the necessity of making increases in its force in order to cover the various steps necessary as to plans and contracts. While the Commission cannot at this time definitely determine the full amount that may be needed for this additional work, it deems it requisite and necessary at this time to ask that one hundred thousand dollars ($100,000) be appropriated for the general expenses of the Commission to be incurred in connection with such new work, and seventy thousand dollars ($70,000) for the purpose of securing borings along various routes where it is expected that construction will be had.

Accordingly, the Public Service Commission for the First District, pursuant to resolution adopted June 16, 1911, hereby makes requisition in accordance with the provisions of the Public Service Commission's law and of chapter 4 of the Laws of 1891, as amended, for the sum of one hundred seventy thousand dollars ($170,000), deemed requisite and necessary to cover additional expenses for the year ending December 31, 1911, as set forth above. Respectfully,

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by Wm. R. Willcox, Chairman. TRAVIS H. WHITNEY, Secretary. [SEAL.]

Resolved, That this Commission make requisition upon the Board of Estimate and Apportionment of The City of New York, in accordance with the provisions of the Public Service Commission's law and of chapter 4 of the Laws of 1891, as amended, for the sum of one hundred and seventy thousand dollars ($170,000), deemed requisite and necessary to cover additional expenses for the year ending December 31, 1911, and that the Chairman and the Secretary be and they hereby are authorized and directed to send a communication, including a requisition, to the said Board of Estimate and Apportionment, in the following form:

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on June 16, 1911, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission this 19th day of June, 1911.

[SEAL.] TRAVIS H. WHITNEY, Secretary.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, June 30, 1911.

To the Board of Estimate and Apportionment:

Under date of June 16, 1911, this Commission transmitted to your Board a requisition for $170,000, being $70,000 for borings and $100,000 for general expenses. In the communication transmitting the requisition the Commission pointed out that the requisition and appropriation made at the beginning of the year for this Commission was for the administrative expenses connected with regulation and existing rapid transit work and that an additional appropriation would be necessary for any new rapid transit work necessary to undertake. It was pointed out that in view of the report signed by your Special Committee and the Public Service Commission for the First District it was essential that certain preliminary work should be undertaken at once, in anticipation of rapid transit construction which it seemed likely would be undertaken.

The necessity for an additional appropriation is very urgent. The Engineering Department of the Commission had a large force at work at the time when the Triborough plans were being completed. Since that time over two hundred men have been laid off on account of lack of work or have been given leave of absence without pay, for the purpose of keeping the expenses of the Department as low as possible. At the present time all of the men in the Department are actively engaged in the supervision of actual construction work now going on, either on Contracts 1 and 2, on the Centre street loop or on the 4th avenue subway. This requires that if any men are to be engaged in the preliminary work necessary to new construction some of the men who have been laid off must be returned to the force. This cannot be done unless the appropriation is made.

So far as the requisition relates to an appropriation for borings, it may be pointed out that borings along proposed routes must be made before the preparation of plans and these borings take considerable time. In addition, bids must be obtained for such borings.

For these reasons, it is important that the money should be made available at the earliest moment, in order that the men may be notified to report for work and that bids may be obtained for the borings. Respectfully,

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. Willcox, Chairman.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 16, 1911, the Public Service Commission for the First District, requested an additional appropriation of $170,000 for the year 1911. In connection therewith I report as follows:

On January 5, 1911, the Board of Estimate and Apportionment authorized $985,193.45 in special revenue bonds for the expenses of the Commission in 1911. The following reasons are given by the Commission for the request:

"Your Board now has before it a report by a subcommittee appointed to consider the matter presented in the communication of the Commission of December 20, 1910, relative to additional transportation facilities. Should your Board take action advising the Commission in such a way that immediate progress can be made in the preparation of plans and contracts for additional facilities, the Commission will be under the necessity of making increases in its force in order to cover the various steps necessary as to plans and contracts. While the Commission cannot at this time definitely determine the full amount that may be needed for this additional work, it deems it requisite and necessary at this time to ask that $100,000 be appropriated for the general expenses of the Commission to be incurred, in connection with such new work, and seventy thousand dollars ($70,000) for the purpose of securing borings along various routes where it is expected that construction will be had."

Appropriations from special revenue bonds to the Commission have been as follows:

1908	$1,000,000 00
1909	1,037,500 00
1910	1,093,000 00

The expenditures for 1910 were approximately $1,200,000. The present request would give a total of $1,155,193.45 in special revenue bonds for 1911.

When the request was made for the first appropriation the Commission stated the following:

"No estimate can be made at this time, and additional requisition may hereafter be necessary for expenses for the proceedings to secure the necessary legal consent for rapid transit routes and changes in such routes and for the acquisition of real estate and other rights necessary to rapid transit construction, for the necessary printing and advertising required by law to secure bidders for rapid transit routes and for the clerical, legal and engineering force necessary if contracts are made during the year for additional rapid transit routes not now under contract, or for the extensive preparation of new plans."

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 10, chapter 4 of the Laws of 1891, and section 14, chapter 429 of the Laws of 1907, as amended, and on account of the requisition of the Public Service Commission for the First District, for one hundred and seventy thousand dollars ($170,000), duly made by the Chairman and Secretary thereof on June 16, 1911, the Board of Estimate and Apportionment hereby approves of an issue of special revenue bonds to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the payment of the general expense of said Commission in connection with new work relative to additional transportation facilities, and seventy thousand dollars ($70,000), to provide means for the purpose of securing borings along the various routes where it is expected that construction will be had relative to additional transportation facilities, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of section 10, chapter 4 of the Laws of 1891, and section 14, chapter 429 of the Laws of 1907, as amended, to issue special revenue bonds of The City of New York to an amount not exceeding one hundred and seventy thousand dollars ($170,000), redeemable from the tax levy of the year succeeding the year of their issue, the proceeds to be applied to the purposes aforesaid, in accordance with schedules to be approved by this Board.

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Docks and Ferries requesting approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost (*$9,500*) for replacing the present walls and partitions of the Record Room, on Pier "A," North River, Borough of Manhattan, with fireproof construction and installing metal filing cases therein, together with a report of the Comptroller, to whom, on June 22, 1911, this application was referred, recommending the approval of said plans and specifications at an estimated cost of *$8,700*:

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, June 15, 1911.

Hon. William J. Gaynor, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—This Department has prepared a contract, No. 1255, for installing fireproof partitions and filing cases on Pier "A," North River. Plans, specifications and estimate were sent to the Board of Estimate and Apportionment for approval on December 10, 1910. The request for the approval of the plans, specifications and estimate was referred to the Corporate Stock Budget Committee on January 19, 1911, for consideration in connection with the 1911 Corporate Stock Budget.

At a meeting of the Board of Estimate and Apportionment held June 8, 1911, a resolution was adopted authorizing the Comptroller to issue corporate stock to the extent of $9,500, to cover construction of fireproof record room on Pier "A."

I request that action be now taken in the matter of approving the plans, specifications and estimate on this contract. Yours very truly,

CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 15, 1911, the Commissioner of Docks requested approval of plans, specifications and estimate of cost for installing fireproof partitions and filing cases on Pier "A," North River. In connection therewith I report as follows:

Request was originally made by the Commissioner on July 28, 1910, for authority to advertise and award a contract for the installation of fireproof partitions on Pier "A," at a cost of $4,000. On September 27, 1910, an amended request was made in which the amount was increased to $9,500. No funds were available for the proposed contract until June 8, 1911, when the Board of Estimate and Apportionment, pursuant to a resolution adopted on April 26, 1911, by the Commissioners of the Sinking Fund, authorized an issue of corporate stock to an amount not exceeding $9,500, the proceeds to be applied to the construction of a fireproof record room on Pier "A," North River, under the jurisdiction of the Department of Docks and Ferries.

The room to be constructed and made fireproof now is made up of timber and wooden partition walls, with the exception of the floor which is partly of concrete. It is proposed to replace the timber and wooden partition walls with walls of fireproof construction, consisting of steel studding carried from the asphalt deck of the pier to the under side of the second floor. The steel frame work is to be filled in with terra cotta blocks laid in Portland cement, and the ceiling is to be of reinforced concrete.

The walls will have a length of about 94 feet on the south side and about 117 feet on the north side, connected by two transverse walls eleven feet in length.

Within this enclosure it is proposed to install metal filing cases 46 feet long, 39 inches deep and about 13 feet high.

The contract is to be divided into two classes, as follows:

Class 1—Providing for the construction of fireproof walls and partitions at an estimated cost of $3,100.

Class 2—Providing for the installing of metal filing cases at an estimated cost of $5,600.

The total estimated cost of the contract work, therefore, is $8,700, which appears to be reasonable.

To this amount it is proposed to add $800, or approximately 10 per cent. for overhead charges and incidental expenses.

In view of the fact that engineering and inspection charges are paid from a special fund for the purpose, entitled, "C-DD-26, Department of Docks and Ferries," Payrolls for Construction and Improvement of Docks," I am of the opinion that an allowance of $800 for overhead and incidental charges would be excessive. I recommend, therefore, that this item in the request be not approved.

The plans and specifications are satisfactory.

I recommend the adoption of the resolution hereto attached.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves of the plans, specifications and estimate of cost to the amount of eight thousand, seven hundred dollars ($8,700), for replacing the present walls and partitions of the Record Room, on Pier "A," North River, Borough of Manhattan, with fireproof construction and installing metal filing cases therein, under the jurisdiction of the Department of Docks and Ferries.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Comptroller as above to the Commissioner of Docks.

The Secretary presented the following communication from the President of the Borough of The Bronx requesting, and report of the Comptroller recommending, the modification of budgetary-part Salary Schedule No. 1714 for the office of said Borough President for the year 1911, to take effect as of May 12, 1911, providing for the addition of two Structural Steel Draftsmen, at $1,800 each per annum, and the substitution of two Topographical Draftsmen, at $1,350 each per annum, for two at $1,500 each per annum:

City of New York, President of the Borough of The Bronx, 3d avenue and 177th street, June 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Request is hereby respectfully made for a modification of the schedule line supporting the part budgetary appropriation made to this office for the year 1911, as follows:

President, Borough of The Bronx.

Division of Design—

1714. Salaries:

Assistant Engineer	1 at	$3,600 00
Assistant Engineer	1 at	3,000 00
Assistant Engineer	1 at	2,250 00
Assistant Engineer	1 at	1,950 00
Topographical Draftsmen	2 at	1,800 00
Topographical Draftsmen	3 at	1,650 00
Topographical Draftsmen	4 at	1,500 00
Topographical Draftsmen	3 at	1,350 00
Mechanical Draftsmen	2 at	1,800 00
Mechanical Draftsmen	2 at	1,650 00
Structural Steel Draftsmen	3 at	1,800 00
Leveler	1 at	1,500 00
Stenographer and Typewriter	1 at	1,200 00
Clerk	1 at	600 00

Part budgetary allowance, $10,000.

It is requested that the resolution to be adopted approving above schedule take effect as of May 12, 1911, as upon that date one Structural Steel Draftsman was appointed, while another was appointed on May 15. Both of these appointments were emergencies, there being so much structural steel work under way, no time could be lost by being required to wait until a modification was adopted permitting their employment. Respectfully,

CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 23, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 5, 1911, the President of the Borough of The Bronx requested modification of the budgetary-part salary schedule for the Division of Design in his office for the year 1911. In connection therewith I report as follows:

The President states that in May two Structural Steel Draftsmen, at $1,800 per annum, were added to the force on account of a great amount of structural steel work under way. The only other change is the substitution of two Topographical Draftsmen, at $1,350 per annum, for two at $1,500.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer	
		Increase.	Decrease.
1714.	Topographical Draftsmen, 6 at $1,500	....	$3,000 00
	Topographical Draftsman, 1 at $1,350	$2,700 00	....
	Structural Steel Draftsman, 1 at $1,800	3,600 00	....
		$6,300 00	$3,000 00

The Structural Steel Draftsmen were appointed on May 12, 1911, and to provide for payment of their compensation modification is necessary as of that date. No increase in compensation is involved.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised, for the office of the President of the Borough of The Bronx for the year 1911, to take effect as of May 12, 1911, as follows:

President, Borough of The Bronx.

Division of Design—

1714. Salaries:

Assistant Engineer	1 at	$3,600 00
Assistant Engineer	1 at	3,000 00
Assistant Engineer	1 at	2,250 00
Assistant Engineer	1 at	1,950 00
Topographical Draughtsmen	2 at	1,800 00
Topographical Draughtsmen	3 at	1,650 00
Topographical Draughtsmen	4 at	1,500 00
Topographical Draughtsmen	3 at	1,350 00
Mechanical Draughtsmen	2 at	1,800 00
Mechanical Draughtsmen	2 at	1,650 00
Structural Steel Draughtsmen	3 at	1,800 00
Leveler	1 at	1,500 00
Stenographer and Typewriter	1 at	1,200 00
Clerk	1 at	600 00

Part budgetary allowance, $10,100.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller. the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller, referring to the claim of Robert Carter & Co. for $103 for work done in connection with a contract for laying and hauling water mains in the Borough of Brooklyn in the years 1908 and 1909, and stating that the City is not justly and equitably obligated to pay said claim, as the so-called extra work came within the terms of said contract and the City did not receive any benefit therefrom:

(On December 15, 1910, the above claim was filed with the Board under the provisions of section 246 of the Charter and referred to the Comptroller.)

City of New York, Department of Finance, Comptroller's Office, June 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Under and pursuant to the provisions of section 246 of the Charter, Robert Carter & Company heretofore filed with the Secretary of your Board, for your consideration and approval, a claim in the sum of $103, for work done in connection with, but alleged to be outside of, a contract for hauling and laying water mains, made with the Department of Water Supply, Gas and Electricity for the Borough of Brooklyn, during the months of September and October 1908, and April, May, June, July and August 1909, said claimant alleging that the charge of $103 is for work not embraced within the terms of said contract, but made necessary by the terms of said contract, because, without such extra hauling said contract wouuld not have been properly and expeditiously performed.

You referred said claim to me for investigation and to report to you thereon. The claim is as above stated.

Chief Engineer De Varona, who was primarily in charge of the work under said contract, refused to certify claimant's bill for $103, stating, "I can find no provision in your contract which permits me to certify this bill."

Mr. Carter, President of claimant Company, when examined on this claim, stated, "Through inadvertance on the part of the Engineer they (the small special castings which were hauled, and for the hauling of which this charge is made) were not called for on the original plans. * * * If the materials had all been called for on the plan it could have been all hauled at the same time and would not have necessitated these various special trips to obtain it and the delay incidental thereto. Both Engineers held this work was within the contract. I do not so hold. I hold I should be paid for the extra expense to which I was put, through their lack of furnishing me with sufficient material at the time I was carting it out on those streets. At the time I did this work nothing was said about extra compensation for it. I did it for the benefit of the City and to enable me to complete my contract and I make my demand strictly upon an honorable and equitable basis. By doing as we did it became possible to charge the pipe lines with water immediately upon their completion, thereby giving the City the full and immediate benefit of the same, which it took."

I have fully considered the facts and Mr. Carter's testimony on claimant's behalf, and having no doubt that the so-called extra work came within the terms of said contract, and that the City did not receive any benefit therefrom that it was not entitled to receive under said contract, I report that the City is not justly and equitably obligated to pay said claim. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the claim of Robert Carter & Company, in the sum of $103, for "Extra cartage from Gowanus Pipe Yard, Water pipe c't dated August 10, 1908," in connection with a contract made with the Department of Water Supply, Gas and Electricity, which was filed with the Board of Estimate and Apportionment December 9, 1910, for its consideration and approval, be and the same hereby is disallowed, it appearing that the City is not justly and equitably obligated to pay the same.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Education requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, that the compensation of Janitors of certain public schools in Manhattan, Brooklyn, Queens and Richmond, be fixed temporarily and until further modified:

(On June 22, 1911, the resolution of the Board of Education relative to the above matter was referred to said Committee.)

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to recommend to the Board of Aldermen that the compensation of Janitors of public school buildings, etc., be fixed in accordance with the following list, taking effect on the date indicated in each instance:

Transfers.

George W. Winant (Janitor), from Public School 72, Queens, to Public School 79, Queens; annual compensation, $1,080; taking effect June 5, 1911.

John W. Werner (Janitor), from Public School 36, Brooklyn, to Public School 90, Brooklyn; annual compensation, $1,548; taking effect June 7, 1911.

Thomas F. Toell (Janitor), from Public School 119, Brooklyn, to Public School 36, Brooklyn; annual compensation, $2,160; taking effect June 7, 1911.

Timothy Wilson (Janitor-Engineer), from Public School 61, Brooklyn, to Public School 39, Brooklyn; annual compensation, $1,356; taking effect June 7, 1911.

William Thiesen (Janitor), from Public School 37, Brooklyn, to Public School 72, Queens; annual compensation, $1,080; taking effect June 19, 1911.

Robert H. Hughes (Janitor-Engineer), from Public School 90, Brooklyn, to Public School 61, Brooklyn; annual compensation, $984; taking effect June 8, 1911.

John J. Smith (Janitor-Engineer), from Public School 22, Brooklyn, to Public School 119, Brooklyn; annual compensation, $2,628; taking effect June 12, 1911.

Temporary Assignments.

John J. Goff, assigned to Public School 129, Manhattan; compensation, $50 per month; taking effect June 1, 1911.

K. D. Johnson, assigned to Public School 61, Brooklyn; compensation, $50 per month; taking effect June 7, 1911.

Herman A. Hintz, assigned to Public School 119, Brooklyn; compensation, $120 per month; taking effect June 7, 1911.

Gustav Muhlbauer, assigned to Public School 36, Brooklyn; compensation, $110 per month; taking effect June 7, 1911.

New Position.

Joost C. Slingerland (Janitor-Engineer), Public School 33, Richmond; compensation, $732 per annum; taking effect June 5, 1911.

Changes in Compensation.

Public School 77, Queens; present compensation, $100 per month (temporary); proposed compensation, $225 per month (temporary); taking effect May 1, 1911; (on account of additional rooms being occupied).

Public School 56, Queens; present compensation, $186 per month (temporary); proposed compensation, $2,436 per annum; taking effect June 1, 1911 (entire building being occupied).

True copy of resolution adopted by the Board of Education on June 14, 1911.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 14, 1911, the Board of Education requested the fixation, pursuant to the provisions of section 56 of the Greater New York Charter, of the compensation of fourteen Janitors for Public Schools 129, Manhattan, 90, 36, 39, 61 and 119, Brooklyn, 79, 77, 72 and 56, Queens, and 33, Richmond.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Whereas, By opinions of the Corporation Counsel, as of June 28, 1910, and July 30, 1910, the Comptroller was advised that the payment of salaries of Janitors in the Department of Education is illegal, unless such salary shall have been established under the provisions of section 56 of the Greater New York Charter; and

Whereas, The matter of adjusting the compensation of Janitors and the fixation of their salaries under the provisions of section 56 of the Charter is now in the hands of a Special Committee of the Board of Estimate and Apportionment; therefore be it

Resolved, That, pursuant to the provisions of section 56 of the Charter, the Board of Estimate and Apportionment hereby recommends to the Board of Aldermen, pending the report of said Committee, the compensation of Janitors in the Department of Education be fixed temporarily, and until further modified, in accordance with the following list:

	Compensation.
Janitor, P. S. 79, Queens (per annum)	$1,080 00
Janitor, P. S. 90, Brooklyn (per annum)	1,548 00
Janitor, P. S. 36, Brooklyn (per annum)	2,160 00
Janitor-Engineer, P. S. 39, Brooklyn (per annum)	1,356 00
Janitor, P. S. 72, Queens (per annum)	1,080 00
Janitor-Engineer, P. S. 61, Brooklyn (per annum)	984 00
Janitor-Engineer, P. S. 119, Brooklyn (per annum)	2,628 00
Janitor, P. S. 129, Manhattan (per month)	50 00
Janitor, P. S. 61, Brooklyn (per month)	50 00
Janitor, P. S. 119, Brooklyn (per month)	120 00
Janitor, P. S. 36, Brooklyn (per month)	110 00
Janitor, P. S. 77, Queens (per month)	225 00
Janitor, P. S. 56, Queens (per annum)	2,436 00
Janitor, Engineer, P. S. 33, Richmond (per annum)	732 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report from the Chairman, Commission on Standardization, approved by the Select Committee of the Board on Standardization of Supplies, wherein it is recommended that the Commissioner of Docks be granted permission to add the following clause to the Standard Specifications for furnishing, delivering, storing and trimming coal as part of the Standard Form of Contract for the purchase of supplies:

"10. In case of a strike interfering with the delivery of coal under this contract as required, the said specifications may, with the approval of the Commissioner, be modified by the Superintendent so as to fairly meet the conditions existing on account of such strike."

Which was ordered printed in the minutes and filed.

June 9, 1911.

Whereas, The Department of Docks and Ferries has asked the Commission on Standardization for permission to amend the standard form of contract for supplies, adopted by the Board of Estimate and Apportionment, April 27, 1911, by including in Contract No. 1282 of that department for coal to be supplied the Municipal Ferry Service for the year beginning July 1, 1911, the following strike clause:

"In case of a strike interfering with the delivery of coal under this contract as required, the said specifications may, with the approval of the Commissioner, be modified by the Superintendent so as to fairly meet the conditions existing on account of such strike."

Whereas, The Select Committee of the Board of Estimate and Apportionment, composed of the Mayor, the Comptroller and the President of the Board of Aldermen, was empowered under the following resolution of the Board, passed April 27, authorizing the use of the said standard form of contract for supplies, to make such changes as might be necessary to meet the requirements of special conditions and cases:

"Be it Resolved, That the forms of Bid or Estimate, Proposal for Bids or Estimates, Contract and Specifications and Schedules of Quantities and Prices be approved by this Board and adopted by the various departments, bureaus and offices under the City Government authorized to purchase supplies, but inasmuch as it cannot be assumed in advance of experience that the new forms adopted will be fully adequate to meet the requirements of special conditions and cases; therefore modifications in the said forms to suit such special conditions and cases may be had by securing the approval in writing of the Committee of the Board of Estimate and Apportionment on the Purchase of Supplies."

Whereas, The amendment asked for by the Department of Docks and Ferries could best be secured by adding the above quoted special contract provision to the special contract provisions of the Standard Specifications for Furnishing, Delivering, Storing and Trimming Coal, which form a part of the Standard Form of Contract for the Purchase of Supplies when the supplies to be purchased consist only of coal;

It is recommended by the Commission on Standardization that the Select Committee of the Board of Estimate and Apportionment on the Purchase of Supplies hereby approves the addition of the following clause to the special contract provisions attached to the Standard Specifications for Furnishing, Delivering, Storing and Trimming Coal as part of the Standard Form of Contract for the Purchase of Supplies:

10. In case of a strike interfering with the delivery of coal under this contract as required, the said specifications may, with the approval of the Commissioner, be modified by the Superintendent so as to fairly meet the conditions existing on account of such strike. Respectfully submitted,

EDMUND D. FISHER, Chairman, Commission on Standardization.

Approved: W. J. GAYNOR, Mayor; WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee on the Purchase of Supplies.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of Comptroller recommending, an issue of $50,000 special revenue bonds (subdivision 8, section 188 of the Charter), to be used by the Corporation Counsel for expenses of City litigation, in securing an injunction against the State of New Jersey and the Passaic Valley Sewerage Commissioners, restraining them from discharging crude sewage into New York Bay:

(On June 29, 1911, the resolution of the Board of Aldermen as above was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special reveenue bonds to the amount of fifty thousand dollars ($50,000), the proceeds whereof to be used by the Corporation Counsel of The City of New York for the purpose of meeting expenses on the part of The City of New York in litigation between the State of

New York and the State of New Jersey, and the Passaic Valley Sewerage Commissioners in the Supreme Court of the United States.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor June 27, 1911. P. J. SCULLY, Clerk.

Department of Finanace, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting an issue of special revenue bonds to the amount of $50,000, to be used by the Corporation Counsel for expenses on the part of the City of New York in litigation between the State of New York and the State of New Jersey and the Passaic Valley Sewerage Commissioners in the Supreme Court of the United States. In connection therewith, I report as follows:

Under an order of the Supreme Court of the United States, in the case of the People of the State of New York, complainants, versus The State of New Jersey and Passaic Valley Sewerage Commissioners defendants, a Commissioner, to take testimony, has been appointed. The Court ordered that the complainants' testimony shall begin to be taken on June 1, 1911, and that all testimony for both sides must be concluded in March, 1912, unless further time be granted by the Court.

The object of the suit is to secure an injunction against the State of New Jersey and the Passaic Valley Sewerage Commissioners, restraining them from discharging into New York Bay, near the New York City line, more than 360,000,000 gallons of crude sewage per diem, an amount estimated to be far beyond the power of the already contaminated waters of the Bay to assimilate.

The State of New Jersey is prepared to defend the suit. Thirty-five thousand dollars has already been appropriated to meet the legal, expert aand other expenses of the trial. Two of the most eminent lawyers in the State have been engaged, and five sanitary experts have been retained to protect the State's interests.

The State of New York, with exhaustive technical data to support its claims, is at present without money to carry on the suit. As the burden of proof lies with the State of New York, with the hearings already under way, the situation can readily be seen to constitute an emergency.

The Corporation Counsel states the following:

"The character of the testimony is almost entirely scientific and the evidence to be offered will be furnished by Sanitation Specialists, Chemists, Bacteriologists, Engineers and Physicians. Such evidence which will warrant the United States Supreme Court to grant the injunction asked for must be furnished by and secured from men of the greatest eminence and professional reputation. In order to secure the services of such men, it will be necessary to compensate them properly. To substitute second rate men would be to doom our City to loss of prestige in conducting an important suit and risk losing the suit itself, which seeks to enjoin the perpetration of a great nuisance, that would not only menace the health and comfort of our citizens, but threaten the commercial pre-eminence of our City."

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Resolution adopted by the Board of Aldermen on June 20, 1911, and approved by the Mayor June 27, 1911, requesting an issue of special revenue bonds in the sum of fifty thousand dollars ($50,000), the proceeds whereof to be used by the Corporation Counsel of The City of New York for the purpose of meeting expenses on the part of The City of New York in litigation between the State of New York and the State of New Jersey, and the Passaic Valley Sewerage Commissioners in the Supreme Court of the United States, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—**16.**

The Secretary presented communications, as follows:

From J. E. Noeggerath, relative to the development of plans for a rapid transit system believed to be more efficient than the present subways;

From the Central Federated Union of Greater New York and Vicinity, relative to the need of proper ventilation in the subways.

Which were referred to the Public Service Commission for the First District.

The Secretary presented the following report of the Comptroller, recommending that the resolution adopted June 1, 1911, which authorized the acquisition of property on Benedict ave. near Fulton ave., Woodhaven, Borough of Queens, for the use of the Fire Department, at a price not exceeding $3,000, be amended by adding thereto the words "subject to the covenants contained in the deed recorded in Liber 1698, page 16, other than so much thereof as reads 'subject also to covenants in former deeds, if any'":

Department of Finance, City of New York, Comptroller's Office, June 28, 1911.

To the Honorable, the Board of Estimate and Apportionments

Gentlemen—On June 1, 1911, your honorable Board adopted a resolution approving of the acquisition of a plot of ground having a frontage of 50 feet on the west side of Benedict ave., with a depth of 100 feet, in the Borough of Queens, for use of the Fire Department, to wit:

Resolved, That the Board of Estimate and Apportionment hereby approves of the selection by the Commissioner of the Fire Department of the following described property for use of said Department.

All that certain piece or parcel of land, situate, lying and being in the Fourth Ward of the Borough of Queens, City and State of New York, bounded and described as follows:

Beginning at a point on the westerly side of Benedict ave., distant 94.46 feet northerly from the corner formed by the intersection of the westerly line of Benedict ave. with the northerly line of Fulton ave., as laid down on map of Wyckoff Park, said map being filed in the office of the Clerk of the County of Queens on April 14, 1909, as Map No. 911: running thence westerly and at right angles with Benedict ave. a distance of 100 feet; thence northerly and parallel with Benedict ave. a distance of 50 feet; thence easterly and again at right angles to Benedict ave. a distance of 100 feet to the westerly line of Benedict ave.; thence southerly along the westerly line of Benedict ave. a distance of 50 feet to the point or place of beginning, together with all the right, title and interest of the owner of said premises, of, in and to the street in front thereof to the centre thereof, and authorizing the Comptroller to enter into a contract for the acquisition of said property at private sale at a price not to exceed $3,000, said contract to be approved by the Corporation Counsel as to form.

A search of these premises by the Title Guarantee and Trust Company develops the fact that a covenant appears in deed recorded in Liber 1698, page 16, as follows:

"The said parties of the second part, for themselves, their heirs, executors, administrators and assigns do hereby covenant and agree to and with the said party of the first part, its successors and assigns, as follows: That the said parties of the second part, their heirs, executors, administrators or assign will not erect or permit on any part of the above decribed premises any livery, public or milkman's stable or slaughterhouse, or any manufactory for making gunpowder, glue, varnish, vitriol, ink or turpentine, or for the boiling of bones, or for the dressing, tanning or preparing of skins, hides or leather, or any brewery or building for the carrying on of any noxious or dangerous trade or business, or sell or suffer or allow to be sold on the premises hereby conveyed or any part thereof strong or spirituous liquors, or ale or wine or intoxicating liquors of any kind."

This covenant will not restrict the City as to the use of the property for the purposes for which it is to be acquired.

I, therefore, respectfully recommend that the above resolution be amended by adding the words, *subject to the covenants contained in the deed recorded in Liber* 1698, *page* 16, other than so much thereof as reads "subject also to covenants in former deeds, if any." Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 1, 1911, which reads as follows:

> "Resolved, That the Board of Estimate and Apportionment hereby approves of the selection by the Commissioner of the Fire Department of the following-described property for the use of said Department:

"All that certain lot, piece or parcel of land situate, lying and being in the Fourth Ward of the Borough of Queens, City and State of New York, bounded and described as follows:

"Beginning at a point on the westerly side of Benedict avenue distant 94.46 feet northerly from the corner formed by the intersection of the westerly line of Benedict avenue and the northerly line of Fulton avenue, as laid down on map of Wyckoff Park, said map being filed in the office of the Clerk of the County of Queens on April 14, 1909, as Map No. 911; running thence westerly and at right angles with Benedict avenue a distance of 100 feet; thence northerly and parallel with Benedict avenue a distance of 50 feet; thence easterly and again at right angles with Benedict avenue a distance of 100 feet to the westerly line of Benedict avenue; thence southerly along the westerly line of Benedict avenue a distance of 50 feet to the point or place of beginning; together with all the right, title and interest of the owner of said premises, of, in and to the street in front thereof to the centre thereof.

"—and authorizes the Comptroller to enter into a contract for the acquisition of said property at private sale, at a price not to exceed three thousand dollars ($3,000), said contract to be approved by the Corporation Counsel as to form." *—be and the same is hereby amended by authorizing said purchase "subject to the covenants contained in the deed recorded in Liber 1698, page 16," other than so much thereof as reads "subject also to covenants in former deeds, if any."*

Which was adopted by the following vote

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller, recommending that the resolution adopted April 6, as amended May 18 and June 1, 1911, which authorized the acquisition of property on Pennsylvania ave., distant 50 feet southerly from the corner formed by the intersection of the southerly side of Liberty ave. with the easterly side of Pennsylvania ave., Brooklyn, for the use of the Department of Education, at a price not exceeding $22,500, be amended by adding thereto the words "subject to the covenants contained in Liber 218 of Conveyances, page 137":

Department of Finance, City of New York, Comptroller's Office, June 28, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—Under date of April 6, 1911, your Board adopted a resolution approving of the acquisition of a plot of ground, 281 feet on Pennsylvania avenue, with a depth of about 110 feet, in the Borough of Brooklyn, for use of the Department of Education, which was amended by a resolution adopted by your Board on May 18, 1911, authorizing the acquisition of the property in three separate parcels, two at private sale and one through condemnation.

One of the resolutions reads as follows:

"Resolved, That the Board of Estimate and Apportionment hereby approves of the action of the Board of Education in the matter of the selection of the following described premises in the Borough of Brooklyn:

"All that certain lot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

"Beginning at a point on the easterly side of Pennsylvania avenue distant 50 feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue; running thence easterly and parallel with Liberty avenue 105 feet; thence southerly parallel with Pennsylvania avenue 150 feet; thence westerly and again parallel with Liberty avenue 105 feet to the easterly side of Pennsylvania avenue; thence northerly along the easterly side of Pennsylvania avenue 150 feet to the point or place or beginning; together with all the right, title and interest, if any, of the owner, of, in and to the avenue in front thereof to the centre thereof, and the Comptroller be and is hereby authorized to enter into contract for the acquisition of the above mentioned premises at private sale, at a price not exceeding $22,500, said contract to be submitted to the Corporation Counsel for his approval as to form."

A search of these premises by the Title Guarantee and Trust Company develops the fact, that in the year 1849 a restriction was placed on the property, which provides that the owners will not conduct or carry on any business upon the above described premises, or any part thereof, which shall be or become a nuisance to the owners of the property in the vincity.

Inasmuch as this restriction does not affect the purposes for which the property is acquired, and for the further reason that the restriction has already been nullified by reason of the character of the improvements in the neighborhood, I recommend that the above resolution be amended by adding the words, *subject to the covenants contained in Liber* 218 *of Conveyances, page* 137. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment *June 1, 1911,* which reads as follows:

"Resolved, That the resolution adopted by the Board of Estimate and Apportionment May 18, 1911, which reads as follows:

"'Resolved, That the resolution adopted by the Board of Estimate and Apportionment April 6, 1911, which reads as follows:

"'Resolved, That the Board of Estimate and Apportionment hereby approves of the action of the Board of Education in the matter of the selection of the following described premises in the Borough of Brooklyn:

"'All that certain lot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

"'Beginning at a point on the easterly side of Pennsylvania avenue distant 50 feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue; running thence easterly and parallel with Liberty avenue 105 feet; thence southerly and parallel with Pennsylvania avenue 150 feet; thence easterly and again parallel with Liberty avenue 5 feet; thence southerly and again parallel with Pennsylvania avenue 131 feet 3 inches; thence westerly and again parallel with Liberty avenue 110 feet to the easterly side of Pennsylvania avenue; thence northerly along the easterly side of Pennsylvania avenue 281 feet 3 inches to the point or place of beginning; together with all the right, title and interest, if any, of the owner, of, in and to the avenue in front thereof to the centre thereof.

"'—and the Comptroller be and is hereby authorized to enter into contract for the acquisition of the above-described premises, at private sale, at a price not exceeding $48,500, said contract to be submitted to the Corporation Counsel for his approval as to form.

"'—be and the same is hereby amended to read as follows:

"'Resolved, That the Board of Estimate and Apportionment hereby approves of the action of the Board of Education in the matter of the selection of the following-described premises in the Borough of Brooklyn:

"'All that certain lot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

"'Beginning at a point on the easterly side of Pennsylvania avenue distant 50 feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue; running thence easterly and parallel with Liberty avenue 105 feet; thence southerly parallel with Pennsylvania avenue 150 feet; thence westerly and again parallel with Liberty avenue 105 feet to the easterly side of Pennsylvania avenue; thence northerly along the easterly side of Pennsylvania avenue 150 feet to the point or place of beginning; together with all the right, title and interest, if any, of the owner of, in, and to the avenue in front thereof to the centre thereof.

"'—and the Comptroller be and is hereby authorized to enter into contract for the acquisition of the above described premises at private sale, at a price not exceeding $22,500, said contract to be submitted to the Corporation Counsel for his approval as to form.

"'—and be it further

"'Resolved, That the Board of Estimate and Apportionment hereby approves of the action of the Board of Education in the matter of the selection of the following-described premises in the Borough of Brooklyn:

"'All that certain lot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

"'Beginning at a point on the easterly side of Pennsylvania avenue distant 230 feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue; running thence easterly and parallel with Liberty avenue 110 feet; thence southerly and parallel with Pennsylvania avenue 51 feet 3 inches; thence easterly and again parallel with Liberty avenue 110 feet to the easterly side of Pennsylvania avenue; thence northerly along the easterly side of Pennsylvania avenue 51 feet 3 inches to the point or place of beginning; together with all the right, title and interest, if any, of the owner of, in and to the avenue in front thereof to the centre thereof.

" '—and the Comptroller be and is hereby authorized to enter into contract for the acquisition of the above described premises at private sale, at a price not exceeding $12,000, said contract to be submitted to the Corporation Counsel for his approval as to form.

" '—and be it further

" 'Resolved, That the Board of Estimate and Apportionment hereby approves of the action of the Board of Education in the matter of the selection of the following described premises in the Borough of Brooklyn:

" 'All that certain lot, piece or parcel of land, with the buildings and improvement thereon erected, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

" 'Beginning at a point on the easterly side of Pennsylvania avenue distant 200 feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue; running thence easterly parallel with Liberty avenue 110 feet; thence southerly and parallel with Pennsylvania avenue 80 feet; thence westerly and again parallel with Liberty avenue 110 feet to the easterly side of Pennsylvania avenue; thence northerly along the easterly side of Pennsylvania avenue 80 feet to the point or place of beginning; together with all the right, title and interest, if any, of the owner of, in and to the avenue in front thereof to the centre thereof; the assessed valuation of which is $8,500 for the year 1910, as shown by the books of record on file in the Department of Taxes and Assessments.

" '—that the Corporation Counsel be instructed to commence condemnation proceedings at once for the acquisition of these premises; and, further, that the title to said premises shall vest in The City of New York immediately upon the filing of the oaths of the Commissioners of Estimate and Appraisal.' "

"—be and the same is hereby amended—in so far as it relates to the purchase at twelve thousand dollars ($12,000) *of that parcel of land beginning at a point on the easterly side of Pennsylvania avenue distant* 230 *feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue—to read as follows*:

"Resolved, That the Board of Estimate and Apportionment hereby approves of the action of the Board of Education in the matter of the selection of the following described premises in the Borough of Brooklyn:

"All that certain lot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

"Beginning at a point on the easterly side of Pennsylvania avenue distant 280 feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue; running thence easterly and parallel with Liberty avenue 110 feet; thence southerly and parallel with Pennsylvania avenue 51 feet 3 inches; thence westerly and again parallel with Liberty avenue 110 feet to the easterly side of Pennsylvania avenue; thence northerly along the easterly side of Pennsylvania avenue 51 feet 3 inches to the point or place of beginning, together with all the right, title and interest, if any, of the owner of, in and to the avenue in front thereof to the centre thereof.

"—and the Comptroller be and is hereby authorized to enter into contract for the acquisition of the above described premises at private sale, at a price not exceeding $12,000, said contract to be submitted to the Corporation Counsel for his approval as to form."

—be and the same is further amended—in so far as it relates to the purchase at $22,500 *of that parcel of land beginning at a point on the easterly side of Pennsylvania avenue distant* 50 *feet southerly from the corner formed by the intersection of the southerly side of Liberty avenue with the easterly side of Pennsylvania avenue, etc.—by addingthereto the words and figures "subject to the covenants contained in Liber 218 of Conveyances, page 137."*

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the Department of Health requesting, and report of the Comptroller recommending, the modification of Salary Schedules Nos. 355 and 368, supporting the appropriation made in the Budget for the year 1911 for said Department, providing for the transfer of a Food Inspector at $1,200 per annum from one schedule to another, involving the transfer of $600, said modifications to take effect July 1, 1911.

Department of Health, City of New York, southwest corner Fifty-fifth street and Sixth avenue, Borough of Manhattan, New York, June 21, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held June 20, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be, and it is hereby respectfully requested to approve of the following further changes and modifications in the schedules supporting the appropriations made to the Department of Health for salaries for the year 1911:

Supporting Schedule to No. 355—Divisions of Inspectors, Salaries.

Strike out item, "Food Inspector, at $1,200."

Supporting Schedule to No. 368—Division of Milk Inspection, Salaries.

Change item, "Food Inspectors, 46 at $1,200," to read, "Food Inspectors, 47 at $1,200."

A true copy, EUGENE W. SCHEFFER, Secretary.

Department of Health, City of New York, southwest corner Fifty-fifth street and Sixth avenue, Borough of Manhattan, New York, June 21, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 277 Broadway, Borough of Manhattan.

Sir—At a meeting of the Board of Health of the Department of Health, held June 20, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be, and it is hereby respectfully requested to transfer the sum of $700 from the appropriration made to the Department of Health for the year 1911, entitled, and as follows:

Code No. 355, Division of Inspections, Salaries, the same being in excess of the amounts required for the purposes thereof, to the appropriation made to the same Department for the same year, entitled:

Code No. 368, Division of Milk Inspection, Salaries, the same being insufficient for the purposes thereof. A true copy, EUGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Health requested modification of two schedules of salaries supporting appropriations to the Department of Health for the year 1911, involving a transfer of $600. In connection therewith I report as follows:

The only change proposed is the transfer of a Food Inspector, at $1,200 per annum, from the Division of General Sanitary Inspection, No. 355, to the Division of Milk Inspection, City and Country, No 368.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
355.	Inspector of Foods, at $1,200.	$1,200 00	....	$600 00	....
368.	Inspector of Foods, 46 at $1,200	....	$1,200 00	....	$600 00

I recommend that the request be granted, by the adoption of the attached resolutions. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Health for the year 1911, to take effect July 1, as follows:

Administration, Division of General Sanitary Inspection—

355. Salaries:

Sanitary Inspector	$3,000 00
Sanitary Inspector	2,550 00
Sanitary Inspector	1,800 00
Sanitary Inspectors, 5 at $1,500	7,500 00
Sanitary Inspectors, 55 at $1,200	66,000 00
Sanitary Inspector	750 00
Medical Inspectors, 2 at $2,550	5,100 00
Medical Inspector	1,500 00
Medical Inspectors, 5 at $1,200	6,000 00
Clerk	1,800 00
Clerks, 4 at $1,200	4,800 00
Clerk	1,050 00
Clerk	750 00
Clerks, 7 at $480	3,360 00
Clerks, 5 at $300	1,500 00
Stenographer and Typewriter	900 00
Typewriting Copyists, 3 at $750	2,250 00
Typewriting Copyists, 3 at $600	1,800 00
Veterinarian	1,500 00
	$113,910 00

Administration, Division of Milk Inspection, City and Country—

368. Salaries:

Inspectors of Foods, 2 at $1,800	$3,600 00
Inspector of Foods	1,500 00
Inspectors of Foods, 6 at $1,350	8,100 00
Inspectors of Foods, 47 at $1,200	56,400 00
Clerk	1,200 00
Clerk	750 00
Clerk	600 00
Clerks, 2 at $540	1,080 00
Clerks, 4 at $480	1,920 00
Stenographers and Typewriters, 8 at $600	4,800 00
Typewriting Copyist	750 00
Typewriting Copyists, 8 at $600	4,800 00
Medical Inspector	1,200 00
Veterinarian	1,200 00
	$87,900 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmoond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Health for the year 1911 as follows:

From

355. Administration, Division of General Sanitary Inspection, Salaries.. $600 00

To

368. Administration, Division of Milk Inspection, City and Country, Salaries $600 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Brooklyn requesting, and report of the Comptroller relative to the modification of salary schedule 1806, supporting the approprirationa made in the Budget for the year 1911, for the office of the President of the Borough of Brooklyn, providing for the increase in compensation of 14 Attendants from $750 to $900 per annum, 20 from $500 to $750 per annum, 1 Janitor from $1,200 to $1,500, 1 Plumber from $4.50 to $5.50 a day and 2 Laborers from $750 to $900 per annum, and for the elimination of 4 Attendants at $600 per annum, 2 Janitors at $900 per annum, 1 Watchman at $900 per annum and 2 Laborers at $750 per annum.

The City of New York, office of the President of the Borough of Brooklyn, Brooklyn, June 15, 1911.

Hon. William A. Prendergast, *Comptroller, Department of Finance,* 280 Broadway, Manhattan, City of New York.

Dear Sir—I respectfully request you to kindly recommend to the Board of Estimate and Apportionment the adoption of a resolution modifying schedule No. 1806, "Wages, Regular Employes," in accordance with the proposed schedule attached hereto. This modification, if granted, will provide for the increase of male Attendants in this Department from $750 to $900, female Attendants in this Department from $600 to $750 per annum. It also provides for the increase of 2 Laborers from $750 to $900 per annum, 1 Janitor from $1,200 to $1,500 per annum, 1 Plumber from $4.50 to $5.50 per diem. It also creates an unassigned balance of $623.

Some of the male Attendants, at the present time, in the Bureau of Public Buildings and Offices are paid $900 per annum, while others doing the same kind of work receive only $750. The same applies to the female Attendants, a portion of whom receive only $600, while others are paid $750 per annum for doing the same kind of work.

I would thank you to give this matter your early consideration so that these changes can take effect from June 1. Yours very respectfully,

L. H. POUNDS, Acting Borough President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 15, 1911, the Acting President of the Borough of Brooklyn requested modification of the wage schedule for the Bureau of Public Buildings and Offices, Maintenance, No. 1806, in his office for the year 1911. In connection therewith I report as follows:

Increases in compensation are asked for as follows:

Attendants, 14 from $750 to $900	$2,100 00
Attendants, 20 from $600 to $750	3,000 00
Janitor, 1 from $1,200 to $1,500	300 00
Plumber, 1 from $4.50 to $5.50 per day	277 00
Laborers, 2 from $750 to $900	300 00
	$5,977 00

It is proposed to eliminate the following positions:

Attendants, 4 at $600	$2,400 00
Janitors, 2 at $900	1,800 00
Watchman, 1 at $900	900 00
Laborers, 2 at $750	1,500 00
	$6,600 00

The changes will leave an unassigned balance of $623. The increase for the plumber is to conform to the prevailing rate of wage for the position. The other increases, the Acting President states, are to provide for equal pay for equal work.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1806.	Attendants, 34 at $900	....	$12,600 00	....	$7,350 00
	Attendants, 42 at $750	....	4,500 00	....	2,625 00
	Attendants, 25 at $600	$14,400 00	....	$8,400 00	....
	Janitor, 1 at $1,500	....	1,500 00	....	875 00

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
	Janitor, 1 at $1,200	1,200 00	....	700 00	....
	Janitors, 9 at $900	1,800 00	....	1,050 00	....
	Plumber, 1 at $5.50	....	1,523 50	....	888 25
	Plumber, 1 at $4.50	1,246 50	....	726 75	....
	Watchmen, 10 at $900	900 00	....	525 00	....
	Laborers, 6 at $900	....	1,800 00	....	1,050 00
	Laborers, 68 at $750	3,000 00	....	1,750 00	....
	Unassigned balance	....	623 00	....	363 50
		$22,546 50	$22,546 50	$13,151 75	$13,151 75

The attached resolution, if adopted, will grant the request.
Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Brooklyn, to take effect as of June 1, 1911, as follows:

President of the Borough of Brooklyn.

Bureau of Public Buildings and Offices, Maintenance—

Wages, Regular Employees:

Attendant	$1,200 00
Attendants, 48 at $900	43,200 00
Attendants, 48 at $750	36,000 00
Attendant	600 00
Janitors, 2 at $1,800	3,600 00
Janitors, 2 at $1,500	3,000 00
Janitors, 7 at $900	6,300 00
Janitor	750 00
Janitresses, 2 at $750	1,500 00
Carpenters, 3 at $1,050	3,150 00
Elevator Conductors, 12 at $900	10,800 00
Matron	1,050 00
Plasterer	1,000 00
Watchmen, 9 at $900	8,100 00
Driver	900 00
Drivers, 2 at $750	1,500 00
Laborers, 8 at $900	7,200 00
Laborers, 64 at $750	48,000 00
Cleaners, 61 at $360	21,960 00
Stationary Engineers, 25 at $4.50 per day (365 days)	41,062 50
Housesmith, 1 at $4.50 per day (277 days)	1,246 50
Plumber, 1 at $5.50 per day (277 days)	1,523 50
Foremen Laborers, 2 at $4 per day (313 days)	2,504 00
Firemen, 29 at $3 per day (365 days)	31,755 00
Oiler, 1 at $3 per day (365 days)	1,095 00
Unassigned balance	623 00
	$279,614 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Brooklyn requesting, and report of the Comptroller relative to the modification of the budgetary part allowance, Salary Schedule No. 1770, supporting the appropriation made in the Budget for the year 1911, for the office of the President of the Borough of Brooklyn, providing for increases in salaries of a Topographical Draftsman, a Messenger and four Clerks, and for the addition of several new positions and for the elimination of various other positions:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, June 14, 1911.

Hon. Wm. A. Prendergast, *Comptroller, Department of Finance, City of New York:*

Dear Sir—I respectfully request you to recommend to the Board of Estimate and Apportionment the adoption of a resolution modifying Salary Schedule No. 1770, Engineering Division, Bureau of Highways, in accordance with the attached statement. This modification will allow the appointment of the following new employees:

Transitman, 1 at (per annum)	$1,500 00
Stenographer, 1 at (per annum)	1,050 00
Rodmen, 3 at (per annum)	1,050 00
Topographical Draftsmen, 2 at (per annum)	1,200 00
Clerks, 2 at (per annum)	1,050 00
Clerk, 1 at (per annum)	900 00

—also for the increase of salary of

Clerk, 1 at $1,500 (per annum), to $1,650.

—and the promotion of

1 Messenger, at $1,050, to Clerk, at $1,200 per annum.
1 Topographical Draftsman, at $1,200, to $1,500 per annum.
2 Clerks, at $900 each, to $1,050 each per annum.
1 Clerk, at $1,050 to $1,200 per annum.

It also eliminates

Assistant Engineer, 1 at (per annum)	$4,000 00
Leveler, 1 at (per annum)	1,350 00
Axeman, 1 at (per annum)	900 00
Clerks, 2 at (per annum)	1,800 00
Clerk, 1 at (per annum)	1,500 00
Clerk, 1 at (per annum)	480 00

This modification will not increase the appropriation of this Department and requires no transfer of money.

Would thank you to give this matter early consideration.

Yours very respectfully, L. H. POUNDS, Acting Borough President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 14, 1911, the Acting President of the Borough of Brooklyn requested modification of the budgetary part allowance salary schedule for the Bureau of Highways, No. 1770, Engineering Division, Regular Force, in his office for the year 1911. In connection therewith I report as follows:

Increases in compensation are proposed as follows:

Joseph C. O'Dea, Topographical Draftsman, from $1,200 to $1,500 per annum. Mr. O'Dea was appointed on September 8, 1910, at the present rate.

Daniel Bartley, Clerk, from $1,500 to $1,650 per annum. Mr. Bartley was appointed in the Tenement House Department on November 26, 1906, at $1,050 per annum. On September 23, 1907, he was transferred to the office of the President of the Borough of Brooklyn at the same rate. On October 1, 1908, his salary was increased to $1,200, and on April 1, 1909, to the present rate.

Maurice F. Carmody, Clerk, from $1,050 to $1,200 per annum. Mr. Carmody was appointed on March 29, 1906, at $600 per annum. On February 1, 1907, he was increased to $750, and on April 1, 1907, to the present rate.

Constantine M. Dressle, Clerk, from $900 to $1,050 per annum. Miss Dressel was appointed on June 5, 1905, at $600 per annum; increased on February 1, 1907, to $750, and on April 1, 1908, to the present rate.

Benjamin Schumacher, Messenger, at $1,050, to Clerk at $1,200 per annum. Mr. Schumacher was appointed on May 26, 1906, as an Automobile Engineman at $3 per diem. On July 16, 1909, his title was changed to Messenger, at $1,050 per annum.

Edward Dahnsen, Clerk, from $900 to $1,050 per annum. Mr. Dahnsen was appointed on June 15, 1907, at $600 per annum, and increased on April 1, 1909, to the present rate.

In addition, the following new positions are requested:

Transitman	1 at	$1,500 00
Topographical Draftsmen	2 at	1,200 00
Rodman	1 at	1,200 00
Rodmen	3 at	1,050 00

Clerk	1 at	900 00
Clerk	1 at	1,050 00
Stenographer and Typewriter	1 at	1,050 00

The position of Clerk at $1,050 per annum is for Mr. Dahnsen, now in the Administration Division at $900 per annum. Mr. Dahnsen is to be transferred to the Engineering Division.

The necessary amount for the increases and new positions are to be provided for by the elimination of the following positions:

Assistant Engineer	1 at	$4,000 00
Assistant Engineer	1 at	2,100 00
Leveler	1 at	1,350 00
Axeman	1 at	900 00
Clerks	2 at	1,800 00
Clerk	1 at	480 00

The various changes would yearly give a decrease of $280. It appears from an examination of the records in the Department of Finance that the grade of Clerk, at $1,650 per annum, has not been established to permit of the proposed increase for one incumbent. Pending establishment, pursuant to the provisions of section 56 of the Greater New York Charter, I recommend that no action be taken on this item in the request.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer.	
		Decrease.	Increase.
1770.	Assistant Engineers, 5 at $4,000	$4,000 00	....
	Assistant Engineers, 2 at $2,100	2,100 00	....
	Transitman, 1 at $1,500	....	$1,500 00
	Topographical Draftsmen, 2 at $1,500	....	1,500 00
	Topographical Draftsman, 1 at $1,200	....	1,200 00
	Leveler, 1 at $1,350	1,350 00	....
	Rodman, 1 at $1,200	....	1,200 00
	Rodmen, 4 at $1,050	....	3,150 00
	Axeman, 1 at $900	900 00	....
	Clerks, 2 at $1,800	3,600 00	....
	Clerk, 1 at $1,200	....	2,400 00
	Clerks, 9 at $1,050	....	1,050 00
	Clerk, 1 at $480	480 00	....
	Stenographer and Typewriter, 1 at $1,050	....	1,050 00
	Messengers, 2 at $1,050	1,050 00	....
		$13,480 00	$13,050 00

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Brooklyn, to take effect as of June 1, 1911, as follows:

President of the Borough of Brooklyn.

Bureau of Highways, Engineering Division, Regular Force—

1770. Salaries:

Chief Engineer	1 at	$6,000 00
Assistant Engineers	4 at	4,000 00
Assistant Engineers	3 at	3,000 00
Assistant Engineer	1 at	2,550 00
Assistant Engineer	1 at	2,250 00
Assistant Engineer	1 at	2,100 00
Assistant Engineers	6 at	1,800 00
Transitmen	6 at	1,800 00
Transitman	1 at	1,650 00
Transitmen	2 at	1,500 00
Topographical Draftsman	1 at	1,800 00

Topographical Draftsmen	3 at	1,500 00
Topographical Draftsmen	2 at	1,200 00
Leveler	1 at	1,500 00
Rodman	1 at	1,200 00
Rodmen	7 at	1,050 00
Chemist	1 at	1,950 00
Clerk	1 at	2,100 00
Clerk	1 at	1,500 00
Clerks	3 at	1,200 00
Clerks	10 at	1,050 00
Clerk	1 at	900 00
Stenographers and Typewriters	4 at	1,200 00
Stenographer and Typewriter	1 at	1,050 00
Typewriting Copyists	2 at	1,050 00
Messenger	1 at	1,050 00
Superintendent of Asphalt Plant	1 at	2,500 00
Mechanical Draftsman	1 at	1,500 00
Typewriter Accountant	1 at	1,500 00
Automobile Engineman	1 at	1,200 00

Budgetary part allowance, $78,400.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of The Bronx requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 1721, supporting the appropriation made in the Budget for the year 1911 for the Office of said Borough President, providing for the elimination of the items Assistant Foreman, at $3.50, for 1,440 days, and Stokers, at $3, for 250 days, and adding $5,040 to the item Engineers, at $4.50, for 1,000 days, and $750 to the item Firemen, at $3, for 500 days:

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, June 20, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—Request is hereby respectfully made for the modification of the schedule lines supporting the appropriation made to this office for the year 1911 as follows:

President, Borough of The Bronx.

Bureau of Highways, Maintenance of Highways—

1721. Wages, Temporary Employees:

Foremen, at $4 per day (7,200 days)	$28,800 00
Carpenters, at $4.50 per day (1,200 days)	5,400 00
Pavers, at $5 per day, (3,400 days)	17,000 00
Rammers, at 4 per day (1,700 days)	6,800 00
Painters, at $4.50 per day (600 days)	2,700 00
Engineers, at $4.50 per day (2,120 days)	9,540 00
Flaggers, at $4.50 per day (720 days)	3,240 00
Laborers, at $2.25 per day (84,000 days)	189,000 00
Firemen, at 3 per day (500 days)	1,500 00
	$263,980 00

The above schedule provides for two changes from the present one.

First—The elimination of the schedule line for Assistant Foremen, which provided for an appropriation of $5,040, and adding said sum to that of the appropriation for Engineers, making a total for the latter schedule of $9,540. There are now five steam rollers in use on the macadam work of the Department, and it is intended to push that feature of maintenance continuously to the close of the current year, and, if possible, add one or two additional Engineers.

Second—The title of Stoker is eliminated and united with that of Firemen, under a recent Civil Service ruling. Respectfully,

CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the President of the Borough of The Bronx requested modification of the wage schedule for temporary employees in the Bureau of Highways, Maintenance of Highways, in his office, for the year 1911. In connection therewith I report as follows:

It is proposed to eliminate the line for Assistant Foreman, at $3.50, for 1,440 days, and add the $5,040 in the line to Engineers, at $4.50, for 1,000 days. The President states that the increase for the Engineers is due to the fact that five steam rollers are being used on maintenance work and that the additional funds are necessary to keep them in operation.

It is further proposed to strike out the line for Stokers, at $3, for 250 days, and transfer the funds to the line for Firemen, at $3, for 250 days. The President states that the transfer is in accordance with a Civil Service ruling.

No increase in compensation is involved.

Approval of the request will effect the Budget lines as follows:

Schedule No.		Line Transfer. Increase.	Line Transfer. Decrease.
1721.	Assistant Foremen, at $3.50 (1,440 days)	....	$5,040 00
	Engineers, at $4.50 per day (2,120 days)	$5,040 00	....
	Stokers, at $3 per day (250 days)	....	750 00
	Firemen, at $3 per day (500 days)	750 00	....
		$5,790 00	$5,790 00

I recommend approval of the request by the adoption of the attached resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of The Bronx for the year 1911, as follows:

President, Borough of The Bronx.

Bureau of Highways, Maintenance of Highways—

1721.	Wages, Temporary Employees:	
	Foremen, at $4 per day (7,200 days)	$28,800 00
	Carpenters, at $4.50 per day (1,200 days)	5,400 00
	Pavers, at $5 per day (3,400 days)	17,000 00
	Rammers, at $4 per day (1,700 days)	6,800 00
	Painters, at $4.50 per day (600 days)	2,700 00
	Engineers, at $4.50 per day (2,120 days)	9,540 00
	Flaggers, at $4.50 per day (720 days)	3,240 00
	Laborers, at $2.25 per day (84,000 days)	189,000 00
	Firemen, at $3 per day (500 days)	1,500 00
		$263,980 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Queens requesting, and report of the Comptroller recommending, a modification of budgetary part allowance, Schedule No. 1839, supporting the appropriation made in the Budget for the year 1911, for the President of the Borough of Queens:

The City of New York, Offices, Commissioner of Public Works, Borough of Queens, Long Island City, April 25, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment,* New York City:

Dear Sir—Pursuant to resolution prefacing Budget for the year 1911, application is hereby made for revision of Appropriation Budget line 1839, Bureau of Sewers, Engineering Division, Regular Force, Supervising and Preliminary Force, Salaries, allotted to this Department for the year 1911, as follows:

Present Schedule.

Bureau of Sewers, Engineering Division, Regular Force—

1839. Supervising and Preliminary Survey Force, Salaries

Chief Engineer	1 at	$3,000 00
Assistant Engineers	2 at	2,700 00
Assistant Engineer	1 at	2,500 00
Assistant Engineer	1 at	2,250 00
Assistant Engineer	1 at	1,950 00
Assistant Engineers	2 at	1,800 00
Draughtsman	1 at	2,100 00
Draughtsmen	2 at	1,800 00
Draughtsman	1 at	1,650 00
Transitman	1 at	1,800 00
Rodmen	2 at	1,200 00
Axeman	1 at	900 00
Stenographer and Typewriter	1 at	1,200 00

Budgetary part allowance, $13,425.

Proposed Schedule.

Bureau of Sewers, Engineering Division, Regular Force—

1839. Supervising and Preliminary Survey Force, Salaries:

Chief Engineer	1 at	$3,000 00
Assistant Engineers	2 at	2,700 00
Assistant Engineer	1 at	2,500 00
Assistant Engineer	1 at	2,250 00
Assistant Engineer	1 at	1,950 00
Assistant Engineers	4 at	1,800 00
Draughtsman	1 at	2,100 00
Draughtsman	1 at	1,800 00
Draughtsman	1 at	1,650 00
Rodmen	2 at	1,200 00
Axeman	1 at	900 00
Stenographer and Typewriter	1 at	1,200 00

Budgetary part allowance, $13,425.

This modification is to provide for the promotion of 1 Transitman at $1,800 and 1 Draughtsman at $1,800 to the position of Assistant Engineer, and it does not involve any change of salary.

The Transitman, John D. C. Mackey, has been employed as Transitman at $1,800 since January 1, 1907, and by reason of particular fitness is qualified to take charge of large works. My object in changing his title is, that I desire to put him in direct charge, under the Chief Engineer, of construction of the Richmond Hill sewers and to make his title in keeping with the dignity of that position.

As to qualifications and character, the same may be said of Carl H. Nordell, whose title I wish to change from Topographical Draughtsman to Assistant Engineer. Mr. Nordell has been employed as a Draughtsman in the Bureau of Sewers since August 1, 1907. We desire to employ him in the field and place him in charge of large work.

Both of the above named employees are eligible for the contemplated change of title, having passed promotion examinations therefor. Respectfully,

WALTER H. BUNN, Commissioner of Public Works and Acting President, Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 25, 1911, the Acting President of the Borough of Queens requested modification of the budgetary part schedule for the Bureau of Sewers, Engineering Division, Regular Force, No. 1839, Supervising and Preliminary Survey Force, in his office for the year 1911. In connection therewith, I report as follows:

The request was for changes in the titles of a Transitman and a Draughtsman, at $1,800 per annum each, to Assistant Engineer, without increase in compensation. On July 5, 1911, the President orally amended the request to provide for the change in title for only the Transitman. The Municipal Civil Service Commission has approved of the new title.

I recommend the adoption of the attached resolution granting the request as amended. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Queens, for the year 1911, as follows:

President, Borough of Queens.

Bureau of Sewers, Engineering Division, Regular Force—

1839. Supervising and Preliminary Survey Force, Salaries:

Chief Engineer	1 at	$3,000 00
Assistant Engineers	2 at	2,700 00
Assistant Engineer	1 at	2,500 00
Assistant Engineer	1 at	2,250 00
Assistant Engineer	1 at	1,950 00
Assistant Engineers	3 at	1,800 00
Draftsman	1 at	2,100 00
Draftsmen	2 at	1,800 00
Draftsman	1 at	1,650 00
Rodmen	2 at	1,200 00
Axemen	1 at	900 00
Stenographer and Typewriter	1 at	1,200 00

Budgetary part allowance, $13,425.

Which was adopted by the following vote

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Public Charities requesting, and report of the Comptroller recommending, approval of the schedule for temporary employees of said Department paid from Appropriation No. 754, Administration, Manhattan and The Bronx, Contingencies, to provide for the temporary employment of two Examiners of Charitable Institutions for four months at $100 each per month, involving the transfer of $800:

Department of Public Charities of the City of New York, Foot of East 26th street, June 6, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—I beg respectfully to request the transfer of eight hundred dollars ($800) from the appropriation to this Department for the year 1911, entitled, Department of Public Charities, Manhattan and The Bronx, Code 1911, 745, General Supplies, to the appropriation, Department of Public Charities, Manhattan and The Bronx, Code 1911, 754, Contingencies, to meet the cost of two (2) Examiners of Charitable Institutions for four (4) months; said Examiners to be engaged on reinvestigation work.

Respectfully yours. M. J. DRUMMOND, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 6, 1911, the Commissioner of Public Charities requested the transfer of $800 within appropriations to his Department for the year 1911. In connection therewith I report as follows:

The transfer is from 745, General Supplies, Manhattan and The Bronx, to 754, Contingencies, Manhattan and The Bronx.

The appropriation for No. 754 was $925,000. The liability incurred to June 15. 1911, was $514,858.81, leaving an unencumbered balance of $410,141.19. The appropriation for No. 745 was $5,000. The liability incurred to June 15, 1911, was $3,107.50. The Commissioner states that the balance of $1,892.50 will be needed for carfares, postage, etc., for the remainder of the year.

The $800 is to provide for the temporary employment of two Examiners of Charitable Institutions for four months, at $100 each per month. The Examiners are to reinvestigate the conditions of families whose children have been committed to private institutions and are maintained at the expense of the City. On April 30, 1911, the number of children maintained as public charges, through commitment by the Department of Public Charities in the Borough of Manhattan, was 12,820. The number of children proposed for commitment during the year 1910 was 9,890. As a result of the investigations made by the 15 Examiners connected with the Children's Bureau, 6,569 of the applications were denied. In addition to the investigations made at the time of application, 5,299 reinvestigations were made into the ability of parents to maintain children who had been public charges for long periods. The reinvestigations resulted in 312 children being disapproved for further retention as public charges, representing a yearly saving to the City of more than $36,000.

The Commissioner states that owing to the great number of investigations which have to be made in connection with the commitment of children, and those made upon applications of parents for the discharge of children (the latter numbering 1,694 in 1910), it has been impossible to make proper reinvestigations, which are now several months behind.

The State Board of Charities, in a communication to this Board, under date of April 17, 1911, called attention to the increase in the census of institutions for children, and stated that one of the causes of such increase was the failure to reinvestigate commitments carefully at the end of each year in order to return as many children to their parents and guardians as possible. The State Board further stated that in The City of New York this condition seems to have been due largely to an inadequate examining force in the Department of Public Charities.

The Commissioner states that there are no funds in any of the salary appropriations of the Department available for the temporary employment of the additional Examiners. He is of the opinion that the proposed reinvestigating will result in returning to their homes many children now maintained at public expense, thereby saving a considerable sum to the City.

I recommend, therefore, that the request be approved by the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedule for temporary employees of the Department of Public Charities, paid from appropriation for 754, Administration, Manhattan and The Bronx, Contingencies, for the year 1911, as follows:

Department of Public Charities.

Administration, Manhattan and The Bronx, Contingencies—

754. Salaries, Temporary Employees:

Examiners of Charitable Institutions, at $1,200 per annum (8 months).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Public Charities for the year 1911, as follows:

From

Administration, Manhattan and The Bronx—

745. General Supplies	$800 00

To

Administration, Manhattan and The Bronx—

754. Contingencies	$800 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($174,000) for the general construction, etc., of additions to and alterations in Public School 132, Manhattan, under the jurisdiction of the Department of Education:

Department of Education, City of New York, Board of Education, Park Avenue and 59th Street, New York, June 23, 1911.

Hon. W. A. Prendergast, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Synder, Superintendent of School Buildings, under date of June 22, 1911, reading as follows:

"I am forwarding herewith the plans and specifications for the general construction, etc., of additions to and alterations in Public School 132, Borough of Manhattan, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment in compliance with the resolution adopted by that Board on January 5, 1911.

"These plans have all been approved under the provisions of section 1073 of the Charter.

"The plans and specifications have also been approved by the Department of Water Supply, Gas and Electricity, as noted on same.

"The above have just been returned by the said Department. Approximate cost, $174,000."

The plans and specifications referred to in the above quoted letter are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—The Board of Education, in a communication dated June 23, 1911, requested approval by the Board of Estimate and Apportionment of plans, specifications and estimate of cost, $174,000, for the general construction, etc., of additions to and alterations in Public School 132, Borough of Manhattan.

An examination of the plans and specifications shows that the new addition is to be erected in the rear of the present building, and will contain twenty-two rooms and an auditorium.

The present toilet building in the rear of the school building is to be removed and new toilets are to be provided in the basement of the existing building. Alterations are to be made in this building, such as are necessary to allow of the construction of these toilets, and for the proper connections between the old and new buildings. The plans and specifications bear the approval of the Department of Water Supply, Gas and Electricity, and are complete and satisfactory. The estimate of cost is reasonable.

The cost of this work is to be charged to fund C-DE-100B, authorized by the Board of Estimate and Apportionment April 13, 1911, in the sum of $230,140 for the construction and equipment of additions to and alterations in Public School 132, Borough of Manhattan.

I submit for adoption the resolution appended hereto. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the plans, specifications and estimate of cost, one hundred and seventy-four thousand dollars ($174,000), for the general construction, etc., of additions to and alterations in Public School 132, Borough of Manhattan, under the jurisdiction of the Department of Education.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($13,500) for removing the old Pelham Bridge over Eastchester Bay, in Pelham Bay Park, The Bronx, under jurisdiction of said Department:

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, N. Y., June 22, 1911.

Hon. William A. Prendergast, *Comptroller,* City of New York:

Dear Sir—Pursuant to a resolution adopted by the Board of Estimate and Apportionment on January 5, 1911, I transmit herewith for your examination and report to the said Board, plans, specifications and estimate of cost of the proposed contract for removing the old Pelham Bridge over Eastchester Bay in Pelham Bay Park, Borough of The Bronx.

The plans are shown on drawing No. 33, and the estimate of cost is $13,500.

The removal of the old bridge is necessary in order to clear the channel as required by the War Department, and also in order to remove an unsightly and useless object in this portion of Pelham Bay Park.

The proposed contract is chargeable to the fund of the Department of Bridges, entitled C-DB-9A, Bridge Over Eastchester Bay in Pelham Bay Park, Removal of Old Bridge, which fund was duly established by resolution of the Board of Estimate and Apportionment adopted May 4, 1911, and by resolution of the Board of Aldermen adopted May 23, 1911. Yours truly,

ARTHUR J. O'KEEFFE, Commissioner.

New York, June 30, 1911.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—The Commissioner of Bridges, in a communication dated June 22, 1911, requested approval by the Board of Estimate and Apportionment of plans, specifications and estimate of cost, $13,500, for removing the old Pelham Bridge over Eastchester Bay in Pelham Bay Park, Borough of The Bronx.

An examination of the plans and specifications submitted showed that the depth to which the crib fender of the pivot pier is to be excavated was not indicated. At the request of the Assistant Engineer of the Department of Finance this defect has been remedied by stating the exact depth on the plan for the work. The plans and specifications are now satisfactory and the estimate of cost is reasonable. Funds for this work were authorized by the Board of Estimate and Apportionment May 4, 1911.

I submit for adoption the resolution appended hereto. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the plans, specifications and estimate of cost, thirteen thousand five hundred dollars ($13,500) for removing the old Pelham Bridge over Eastchester Bay in Pelham Bay Park, Borough of The Bronx, under the jurisdiction of the Department of Bridges.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($5,600) for an extension of the underground system of the Fire Department fire alarm telegraph circuits on Vernon and Jackson avenues, from 1st street to Payntar avenue, and on Vernon avenue, from 2d street to 8th street, Borough of Queens:

Fire Department of The City of New York, June 5, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller:*

Sir—Forwarded herewith for the approval of the Board of Estimate and Apportionment are specifications and plans for an extension of the underground system of the Fire Department fire alarm telegraph circuits. This work is part of a new system and is to be provided under C-FD-2, Fire Alarm System, Extension of, Borough of Queens.

The estimated cost of this improvement is $5,600.

The completion of this work will permit the removal of poles along Vernon and Jackson avenues from 1st street to Payntar avenue, also the removal of fire alarm telegraph circuits from high tension poles on Vernon avenue from 2d street to 8th street. Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 5, 1911, the Fire Commissioner requested the approval of plans, specifications and estimated cost of $5,600 for an extension of the underground system of the Fire Department fire alarm telegraph circuits on Vernon and Jackson avenues, from 1st street to Payntar avenue and on Vernon avenue from 2d street to 8th street, Borough of Queens.

The plans and specifications call for material similar to that included in the specifications prepared for a new fire alarm telegraph system for the Borough of Manhattan by John J. Carty and Kempster B. Miller, and included in their report dated September 25, 1907.

The completion of the work will permit the removal of poles on Vernon and Jackson avenues, and the removal of wires from poles on Vernon avenue, which carry high tension wires.

The plans and specifications are correctly drawn and the work is necessary.

The Fire Commissioner proposes to charge the cost to the fund entitled: C-FD-2, Fire Alarm System, Extension of, Borough of Queens, in which the sum of $9,519.16 was released by the Board of Estimate and Apportionment on June 3, 1910.

I recommend that the plans, specifications and estimate of cost be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the plans, specifications and estimate of cost, five thousand six hundred dollars ($5,600), for an extension of the underground system of the Fire Department fire alarm telegraph circuits on Vernon and Jackson avenues, from 1st street to Payntar avenue, and on Vernon avenue, from 2d street to 8th street, Borough of Queens.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Comptroller referring to the resolution of the Board of Aldermen, requesting an issue of $8,225 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the employment in the Bureau of Buildings, Borough of Queens, of ten additional Building Inspectors at $1,200 each per annum, and two additional Clerks at $1,050 each per annum from June 1, 1911, recommending that no action be taken on the request, and that the President of the Borough be advised to make application for the additional force in the Budget estimate for his office for the year 1912.

Which was referred to the Budget Committee, consisting of the Comptroller, the President of the Borough of Manhattan and the President of the Board of Aldermen.

(On May 25, 1911, the above resolution was referred to the Comptroller.)

The Secretaary presented the following communication from the Department of Docks and Ferries requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the specifications and estimate of cost ($7,500) for dredging about 15,000 cubic yards in the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond, under the jurisdiction of said Department:

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, February 23, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment,*

Sir—I transmit herewith specifications of Contract 1238, for hard digging dredging in all Boroughs. This contract calls for dredging about 15,000 cubic yards of material. The estimate is 50 cents per cubic yard. This is a corporate stock charge.

Request has been before you for some time past for authority to advertise and award this contract.

I now respectfully request approval of the specifications and estimate in accordance with resolution adopted June 3, 1910. Yours respectfully,

CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On February 23, 1911, the Commissioner of Docks and Ferries requested the approval of specifications and estimated cost of $7,500 for dredging about 15,000 cubic yards of materials in the Boroughs of Manhattan, Brooklyn, Queens, The Bronx and Richmond. In connection therewith I report as follows:

No funds for the work were available until June 8, 1911, when $33,000 in corporate stock was approved by the Board of Estimate and Apportionment.

The proposed contract is for the dredging of mud and hard material at points where the construction of the new bulkheads and piers is in progress. Bulkheads and piers are being constantly built and it is essential that a contract for dredging should be in force so that trenches may be opened up for the foundations.

The new contract is to provide that the 15,000 cubic yards of materials must not be exceeded to an extent greater than five per cent.

The estimated cost of $7,500, or 50 cents per cubic yard, is based on prices that have been paid under former contracts for similar work, and is reasonable. The specifications have been amended as regards the date of completion of the work and are satisfactory. The cost is to be charged to the corporate stock fund entitled C-DD-31, Mud and Hard Dredging in New York Harbor.

I recommend the adoption of the atttached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves of the specifications and estimate of cost, seven thousand five hundred dollars ($7,500), for dredging, under the jurisdiction of the Department of Docks and Ferries, about fifteen thousand (15,000) cubic yards in the Boroughs of Manhattan, Brooklyn, Queens, The Bronx and Richmond.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Richmond requesting, and report of the Comptroller recommending, approval of the schedule of salaries and wages for the Topographical Bureau in the office of the President of the Borough of Richmond to take effect as of May 1, 1911, with the exception of the lines "Rodmen, at $1,050, for 6 incumbents," and "Topographical Draftsman, at $1,350, for 8 incumbents," which shall take effect as of June 20, 1911, in order to permit of the payment of the salaries of the incumbents affected for May and June:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 21, 1911.

Honorable Board of Estimate and Apportionment, 277 Broadway, New York:

Gentlemen—I would request a modification of the schedules of salaries and wages of the Topographical Bureau of this office (payable principally from corporate stock fund entitled C-PR-2, Fund for Topographical Bureau of the Borough of Richmond), as follows:

Principal Assistant Engineer	1 at	$3,600 00
Assistant Engineer	1 at	2,400 00
Assistant Engineer	6 at	2,250 00

Assistant Engineer	4	at	2,000 00
Assistant Engineer	2	at	1,800 00
Assistant Engineer	4	at	1,650 00
Assistant Engineer	2	at	1,500 00
Assistant Engineer	1	at	1,350 00
Assistant Engineer	1	at	1,200 00
Chief Draftsman	1	at	2,000 00
Topographical Draftsman	4	at	1,800 00
Topographical Draftsman	1	at	1,650 00
Topographical Draftsman	1	at	1,500 00
Topographical Draftsmen	8	at	1,350 00
Topographical Draftsman	4	at	1,200 00
Transitman and Computer	4	at	1,650 00
Transitman and Computer	5	at	1,350 00
Transitman and Computer	5	at	1,200 00
Leveler	1	at	1,500 00
Rodman	2	at	1,200 00
Rodman	7	at	1,050 00
Rodman	3	at	900 00
Axeman	9	at	900 00
Foreman	1	at	1,200 00
Foremen	3	at	1,050 00
Drivers	3	at	900 00
Laborers	17	at	900 00
Stenographer and Typewriter	1	at	1,500 00
Clerk	1	at	1,200 00
Clerk	1	at	1,050 00
Messenger	1	at	900 00

It is desired to have this modification for the purpose of covering the employees of the above bureau during the month of June as the schedule adopted on June 1 makes provisions for increases in salaries which it has not been found practicable to make, as yet, although it is proposed at a later date to put into effect the salaries provided for in the June 1 schedule.

I would request that immediate action be taken toward the establishment of this schedule and that it be made to take effect as of May 1, 1911. Yours respectfully,

LOUIS L. TRIBUS, Acting President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 21, 1911, the Acting President of the Borough of Richmond requested approval of a modification of the schedule for the non-budgetary allowance for the Topographical Bureau in the office for the year 1911. In connection therewith I report:

It is stated that a modification approved by your Board on June 1, 1911, provided for increases in salaries which it has not been found practicable to make at this time. It is proposed, therefore, to include the old rates in the schedule to permit of the payment of the incumbents involved for May and June. The grades of positions of Rodman at $1,050 per annum, for six incumbents, and Topographical Draftsman, at $1,350, for eight incumbents, were established on June 20, 1911, pursuant to the provisions of section 56 of the Greater New York Charter. Modification of these items, therefore, can only become operative as of that date.

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment approves of the following modification of the schedule of salaries and wages for the Topographical Bureau, in the office of the President of the Borough of Richmond, for the Corporate Stock Fund, to take effect as of May 1, 1911, with the exception of the lines: Rodman, at $1,050, for 6 incumbents, and Topographical Draftsman, at $1,350, for 8 incumbents, which shall take effect as of June 20, 1911, as follows:

Fund for Topographical Bureau, Borough of Richmond—

C-PR-2. Salaries:

Principal Assistant Engineer	1	at	$3,600 00
Assistant Engineer	1	at	2,400 00

Assistant Engineers	6 at	2,250 00
Assistant Engineers	4 at	2,000 00
Assistant Engineers	2 at	1,800 00
Assistant Engineers	4 at	1,650 00
Assistant Engineers	2 at	1,500 00
Assistant Engineer	1 at	1,350 00
Assistant Engineer	1 at	1,200 00
Chief Draftsman	1 at	2,000 00
Topographical Draftsmen	4 at	1,800 00
Topographical Draftsman	1 at	1,650 00
Topographical Draftsman	1 at	1,500 00
Topographical Draftsmen	8 at	1,350 00
Topographical Draftsmen	4 at	1,200 00
Transitman and Computer	1 at	1,800 00
Transitmen and Computers	4 at	1,650 00
Transitmen and Computers	5 at	1,350 00
Transitmen and Computers	5 at	1,200 00
Leveler	1 at	1,500 00
Rodmen	2 at	1,200 00
Rodmen	7 at	1,050 00
Rodmen	3 at	900 00
Axemen	9 at	900 00
Foreman	1 at	1,200 00
Foremen	3 at	1,050 00
Drivers	3 at	900 00
Laborers	17 at	900 00
Messenger	1 at	900 00
Stenographer and Typewriter	1 at	1,500 00
Clerk	1 at	1,200 00
Clerk	1 at	1,050 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Comptroller, requesting the modification of salary schedules supporting the appropriation made in the Budget for the year 1911, for the Department of Finance, providing for the abolishment of the positions of Examiner at $2,400; 2 Clerks, 1 at $480 and 1 at $750, and Stenographer and Typewriter at $1,050 per annum; for the appointment of 5 Clerks at $300 each per annum and a Stenographer and Typewriter at $750 per annum, and for increasing the salary of a Financial Clerk from $2,100 to $2,250 per annum:

City of New York, Department of Finance, Comptroller's Office, July 1, 1911.

The Honorable Board of Estimate and Apportionment:

Gentlemen—Request is hereby made that the Budget Schedule Lines supporting the salaries appropriations, as made to the Department of Finance for the year 1911, be modified in order to provide for the following changes:

1. For abolishing the position now vacant, of Examiner, at $2,400 per annum, in the Law and Adjustment Division.

2. For the appointment of two Clerks at $300 per annum each in the office of City Paymaster.

3. For abolishing one position of Clerk, now vacant at $480 per annum, in the office of City Paymaster.

4 For the promotion of a Financial Clerk in the Paymaster's office from $2,100 to $2,250 per annum.

This promotion is intended for James S. McCabe, who has been in the service of the Department of Finance since January 1, 1899.

5. For the appointment of a Stenographer and Typewriter in the Auditing Bureau at $750 per annum, and the abolishment of one position of Stenographer and Typewriter in that Bureau, now vacant, at $1,050 per annum.

6. For changing "Balance Unassigned" in Executive Division Schedule from "$160" to "$2,290."

7. For the appointment of an additional Clerk at $300 per annum in the Auditing Bureau.

8. For the appointment of two additional Clerks at $300 per annum, in the Bureau for the Collection of Taxes.

9. For abolishing one position of Clerk, now vacant, at $750 per annum, in the Bureau for the Collection of Taxes.

10. For changing item "Balance Unassigned" from "$1,160" to "$1,310" in schedule of Revenue: Taxes, Assessments and Arrears, Miscellaneous.

Resolution authorizing the changes as requested, is transmitted herewith for adoption. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following modification of the schedules of salaries supporting the appropriation made to the Department of Finance for the year 1911, entitled and as follows:

Executive Division—

25. Salaries:

Deputy Comptrollers, 2 at $7,500	$15,000 00
Assistant Deputy Comptroller	6,000 00
Secretary to the Department	6,000 00
Clerk to the Comptroller	2,100 00
Stenographer to the Comptroller	1,500 00
Chief Stock and Bond Clerk	5,000 00
Chief Examiner of Accounts of Institutions	5,000 00
Appraiser of Real Estate	4,000 00
Clerk	3,000 00
Clerk (Chief)	2,800 00
Clerk	2,800 00
Clerks, 2 at $2,400	4,800 00
Clerks, 2 at $2,250	4,500 00
Clerk	2,100 00
Clerk	1,950 00
Clerks, 4 at $1,800	7,200 00
Clerks, 5 at $1,650	8,250 00
Clerk	1,500 00
Clerks, 4 at $1,350	5,400 00
Clerks, 4 at $1,200	4,800 00
Clerks, 5 at $1,050	5,250 00
Clerks, 4 at $900	3,600 00
Clerks, 6 at $750	4,500 00
Clerk	600 00
Clerks, 8 at $540	4,320 00
Clerks, 7 at $480	3,360 00
Clerks, 8 at $300	2,400 00
Searcher	1,650 00
City Paymaster	6,000 00
Deputy City Paymasters, 8 at $2,500	20,000 00
Auditor of Accounts	6,000 00
Auditors of Accounts, 2 at $4,000	8,000 00
Auditor of Accounts	3,000 00
Deputy Auditor of Accounts	2,100 00
Examiner	5,000 00
Examiners, 2 at $2,550	5,100 00
Examiners, 5 at $2,100	10,500 00
Examiners, 4 at $1,800	7,200 00
Examiners, 4 at $1,650	6,600 00
Examiners, 4 at $1,500	6,000 00
Examining Inspectors, 2 at $1,650	3,300 00
Examining Inspectors, 3 at $1,500	4,500 00
Stenographer and Typewriter	1,650 00
Stenographers and Typewriters, 2 at $1,500	3,000 00
Stenographers and Typewriters, 8 at $1,350	10,800 00
Stenographers and Typewriters, 5 at $1,050	5,250 00
Stenographer and Typewriter	900 00
Stenographer and Book Typewriter	1,050 00
Stenographers and Typewriters, 2 at $750	1,500 00
Typewriting Copyist	900 00
Bank Messengers, 2 at $1,200	2,400 00

Messengers, 4 at $1,350	5,400 00
Messengers, 2 at $1,200	2,400 00
Extra Messenger	1,050 00
Telephone Operators, 3 at $1,050	3,150 00
Janitor	900 00
Watchmen, 4 at $900	3,600 00
Cleaner	540 00
Bookkeeper	4,000 00
Bookkeeper	1,950 00
Bookkeepers, 3 at $1,350	4,050 00
Bookkeepers, 6 at $1,200	7,200 00
Cashier	1,800 00
Financial Clerks, 2 at $2,250	4,500 00
Financial Clerks, 5 at $1,800	9,000 00
Financial Clerks, 4 at $1,650	6,600 00
Financial Clerks, 2 at $1,500	3,000 00
Financial Clerks, 9 at $1,350	12,150 00
Financial Clerks, 4 at $1,200	4,800 00
Financial Clerk	1,050 00
Stock and Bond Clerks, 4 at $2,100	8,400 00
Stock and Bond Clerk	1,950 00
Bookbinders, 4 at $1,200	4,800 00
Topographical Draftsman	1,500 00
Topographical Draftsman	1,350 00
Law Clerk	2,300 00
Law Clerk	1,800 00
Law Clerk	1,200 00
Medical Examiner	2,500 00
Inspector of Sewer Construction	1,500 00
Balance unassigned	2,290 00
	$346,860 00

Auditing Bureau—

31. Salaries:

Auditor of Accounts	$6,000 00
Auditor of Accounts	5,000 00
Auditors of Accounts, 2 at $4,000	8,000 00
Auditors of Accounts, 3 at $3,500	10,500 00
Auditors of Accounts, 12 at $3,000	36,000 00
Deputy Auditors of Accounts, 2 at $2,100	4,200 00
Expert Accountant	4,000 00
Expert Accountants, 2 at $3,500	7,000 00
Expert Accountants, 3 at $2,500	7,500 00
Expert Accountants, 8 at $2,100	16,800 00
Chief Accountant and Bookkeeper	6,000 00
Accountant (Auditor of Receipts)	4,000 00
Accountants, 2 at $2,100	4,200 00
Accountants, 2 at $1,800	3,600 00
Accountant	1,650 00
Clerk (Chief)	4,500 00
Clerks, 2 at $2,400	4,800 00
Clerks, 5 at $2,100	10,500 00
Clerks, 4 at $1,950	7,800 00
Clerks, 5 at $1,800	9,000 00
Clerks, 8 at $1,650	13,200 00
Clerks, 10 at $1,350	13,500 00
Clerks, 20 at $1,500	30,000 00
Clerks, 11 at $1,200	13,200 00
Clerks, 13 at $1,050	13,650 00
Clerks, 3 at $900	2,700 00
Clerks, 4 at $750	3,000 00
Clerk, with special knowledge of handwriting	1,050 00
Clerks, 4 at $600	2,400 00
Clerks, 6 at $540	3,240 00
Clerks, 3 at $300	900 00
Disbursing Clerks, 2 at $2,250	4,500 00

Disbursing Clerk	1,650 00
Clerk, with special knowledge as Cataloguer	750 00
Searchers, 4 at $1,050	4,200 00
Bookkeeper	3,500 00
Bookkeeper	3,000 00
Bookkeepers, 2 at $2,400	4,800 00
Bookkeeper	2,250 00
Bookkeeper	2,100 00
Bookkeepers, 2 at $1,950	3,900 00
Bookkeeper	1,800 00
Bookkeepers, 3 at $1,650	4,950 00
Bookkeeper	1,500 00
Bookkeepers, 7 at $1,350	9,450 00
Bookkeepers, 19 at $1,200	22,800 00
Security Deposit Clerk	1,800 00
Cashiers, 3 at $2,100	6,300 00
Cashier	1,650 00
Cashier	1,350 00
Financial Clerk	1,950 00
Financial Clerk	1,650 00
Financial Clerks, 2 at $1,350	2,700 00
Financial Clerks, 2 at $1,200	2,400 00
Financial Clerks, 2 at $1,050	2,100 00
Stenographer and Typewriter	1,650 00
Stenographer and Typewriter	1,500 00
Stenographers and Typewriters, 5 at $1,200	6,000 00
Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	900 00
Stenographer and Typewriter	750 00
Stenographer and Book Typewriter	900 00
Typewriting Copyist	750 00
Typewriter Accountants, 2 at $1,200	2,400 00
Bank Messengers, 3 at $1,200	3,600 00
Messenger	1,200 00
Examiner	5,000 00
Examiner	4,000 00
Examiner	2,550 00
Examiners, 4 at $2,100	8,400 00
Examiners, 3 at $1,950	5,850 00
Examiners, 2 at $1,800	3,600 00
Examiners, 5 at $1,650	8,250 00
Examiners, 3 at $1,500	4,500 00
Examiner	1,350 00
Examiner	1,200 00
Examiners, 2 at $1,050	2,100 00
Examining Inspectors, 12 at $1,500	18,000 00
Examining Inspector	1,350 00
Inspector of Repairs and Supplies	2,550 00
Inspectors of Repairs and Supplies, 3 at $1,800	5,400 00
Inspector of Repairs and Supplies	1,650 00
Inspectors of Repairs and Supplies, 4 at $1,500	6,000 00
Inspectors of Repairs and Supplies, 10 at $1,200	12,000 00
Inspectors of Regulating, Grading and Paving, 2 at $1,500	3,000 00
Inspector of Regulating, Grading and Paving	1,350 00
Inspector of Regulating, Grading and Paving	1,200 00
Inspector of Sewer Construction	1,350 00
Inspector of Sewer Construction	1,200 00
Inspector of Sewers	1,800 00
Veterinarian	1,800 00
Assistant Engineer	3,600 00
Assistant Engineer	3,000 00
Assistant Engineer	2,400 00
Assistant Engineers, 5 at $2,100	10,500 00
Assistant Engineer	1,800 00
Assistant Engineer	1,650 00
Transitman and Computer	1,500 00

Examiner of Accounts of Institutions	3,000 00
Examiner of Accounts of Institutions	1,650 00
Examiners of Accounts of Institutions, 4 at $1,500	6,000 00
	$512,190 00

Revenue, Taxes, Assessments and Arrears, Miscellaneous—

32. Salaries:

Receiver of Taxes	$6,000 00
Deputy Receivers of Taxes, 2 at $4,000	8,000 00
Deputy Receivers of Taxes, 2 at $3,750	7,500 00
Deputy Receivers of Taxes, 3 at $2,500	7,500 00
Deputy Receivers of Taxes, 3 at $2,100	6,300 00
Collector of Assessments and Arrears	4,500 00
Deputy Collector of Assessments and Arrears	4,000 00
Deputy Collector of Assessments and Arrears	3,500 00
Deputy Collectors of Assessments and Arrears, 2 at $2,250	4,500 00
Deputy Collector of Assessments and Arrears	2,000 00
Collector of City Revenue and Superintendent of Markets	3,000 00
Cashier	2,500 00
Cashiers, 2 at $2,100	4,200 00
Cashiers, 2 at $1,800	3,600 00
Cashiers, 4 at $1,650	6,600 00
Cashiers, 3 at $1,500	4,500 00
Accountant	1,800 00
Accountants, 2 at $1,500	3,000 00
Bookkeeper	2,250 00
Bookkeepers, 2 at $1,800	3,600 00
Bookkeepers, 2 at $1,500	3,000 00
Bookkeepers, 6 at $1,200	7,200 00
Clerk	2,400 00
Clerk	2,250 00
Clerks, 3 at $1,950	5,850 00
Clerks, 6 at $1,800	10,800 00
Clerks, 9 at $1,650	14,850 00
Clerks, 12 at $1,500	18,000 00
Clerks, 18 at $1,350	24,300 00
Clerks, 14 at $1,200	16,800 00
Clerks, 15 at $1,050	15,750 00
Clerks, 5 at $900	4,500 00
Clerks, 3 at $600	1,800 00
Clerks, 3 at $540	1,620 00
Clerk	480 00
Clerks, 3 at $300	900 00
Financial Clerk	2,400 00
Financial Clerk	1,950 00
Financial Clerk	1,800 00
Financial Clerks, 2 at $1,650	3,300 00
Financial Clerk	1,500 00
Financial Clerk	1,050 00
Collection Clerk	1,650 00
Collection Clerks, 2 at $1,500	3,000 00
Collection Clerks, 3 at $1,350	4,050 00
Clerk, with special knowledge of handwriting	1,050 00
Searchers, 2 at $1,200	2,400 00
Searchers, 12 at $1,050	12,600 00
Searcher	900 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	900 00
Stenographer and Typewriter	750 00
Typewriting Copyist	1,050 00
Bank Messengers, 5 at $1,200	6,000 00
Messengers. 2 at $1,200	2,400 00
Messengers, 2 at $1,050	2,100 00
Balance unassigned	1,310 00
	$273,760 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller certifying pursuant to section 246 of the Charter the claim of the "Sun" for $316.80 for certain advertising for the Board of Water Supply from December 8 to December 13, 1910, inclusive:

City of New York, Department of Finance, Comptroller's Office, July 1, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—Under and pursuant to the provisions of chapter 601 of the Laws of 1907, being section 246 of the Greater New York Charter, as amended, entitled "An Act to amend the Greater New York Charter in relation to the powers of the Board of Estimate and Apportionment," I hereby certify that a claim has been presented by "The Sun" in the sum of $316.80, for advertising rendered the Board of Water Supply of The City of New York, from December 8 to December 13, 1910, inclusive; that such claim, according to the opinion of the Acting Corporation Counsel, is illegal and invalid as against The City of New York, but notwithstanding in my judgment it is equitable and proper for the City to pay said claim, inasmuch as the City has received value for the same, and that $316.80 is the amount which should be paid in full satisfaction thereof. Respectfully, WM. A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, July 1, 1911.

In the matter of the petition of "The Sun," under chapter 246 of the Greater New York Charter, for the payment of the sum of $316.80, alleged to be due for the publication of certain advertisements at the request of the Board of Water Supply, inviting proposals for contracts 63, 65, 66 and 67, for the construction of portions of City tunnels, Catskill Aqueduct.

Hon. William A. Prendergast, *Comptroller:*

Sir—The following communication, a copy of which is here set forth, was received from the petitioner June 28, 1911:

"Hon. Wm. A. Prendergast, *Comptroller,* City of New York, New York:

"My Dear Mr. Prendergast—Enclosed herewith a bill for advertising amounting to $316.80 for advertisements published in 'The Sun' during the month of December, 1910, soliciting proposals under contracts 63, 65, 66 and 67, for the construction of portions of the City tunnels, Catskill Aqueduct.

"The original order received by 'The Sun,' authorizing this advertising, is on file in the office of the Board of Water Supply, having been, as required by the rules of that Department, returned to the office of said Board by 'The Sun,' together with the bill and proof of publication.

"The service was performed in accordance with the above order on December 8, 9, 10, 11, 12 and 13, six days in all. Thereafter the advertising was ordered stopped, which order was complied with.

"This bill is long past due and unpaid, although demand has been made for payment of the same. As we are innocent parties to any other transaction in the matter, we look to The City of New York for the full payment of this amount, $316.80, under section 246 of the Charter. Respectfully, (Signed) D. W. QUINN, Cashier."

A copy of the bill transmitted with the above application is here set forth.

"1910.	Lines.	Times.	Rate.	
December 8, 9, 10, 11, 12, 13..................	33	6	40	$79 20
December 8, 9, 10, 11, 12 13..................	34	6	40	81 60
December 8 9, 10, 11, 12, 13..................	29	6	40	69 60
December 8, 9, 10, 11, 12, 13..................	36	6	40	86 40
				$316 80"

In response to a request for information concerning this petition, the Board of Water Supply, with a letter dated June 29, 1911, and signed by Joseph P. Morrissey, Secretary, transmits a copy of a communication dated May 26, 1911, which is addressed to the Corporation Counsel. The communication in question reads as follows:

"Hon. Archibald R. Watson, *Corporation Counsel, City of New York,* Hall of Records, New York City:

"Sir—On December 7, 1910, two of the Commissioners of the Board of Water Supply, at an informal meeting, directed the Secretary of the Board to publish in certain newspapers advertisements soliciting proposals under contracts 63, 65, 66 and 67, for the construction of portions of the City Tunnel, Catskill Aqueduct, bids to be opened December 24, 1910.

"Under date of December 13, 1910, the advertisements were discontinued by the Board of Water Supply for the reason that the contracts in question had not received the approval of the Corporation Counsel as to form.

"Bills have been received for this advertising from the date of insertion, December 8, 1910, to the date of discontinuance, December 13, 1910, as follows:

'The Sun'	$316 80
'The Brooklyn Daily Eagle'	130 56
'The World'	268 80
'Engineering Record'	44 80
Total	$760 96

"In view of the fact that the form of these contracts received your subsequent approval on April 13, 1911, the Board of Water Supply desires to be advised if vouchers can be properly certified to the Comptroller of The City of New York in payment of the advertisements soliciting the opening of proposals on December 24, 1910.

"Respectfully, BOARD OF WATER SUPPLY,
"Per Secretary.

Replying to the request of the Board of Water Supply, Acting Corporation Counsel G. L. Sterling, in an opinion dated June 12, 1911, says:

"Your Secretary informs me that at an informal meeting of two of the Commissioners held December 7, 1910, he was directed to publish in certain newspapers advertisements soliciting proposals under contracts 63, 65, 66 and 67, for the construction of portions of the City Tunnel, Catskill Aqueduct. These advertisements were inserted, but were discontinued on December 13, 1910, for the reason that the contracts in question had not received the approval of the Corporation Counsel as to form. On April 13, 1911, the Corporation Counsel gave his approval as to form.

"I think these claims cannot be enforced. Section 26, chapter 724, Laws of 1905, provides that the forms of contract, specifications and bonds for faithful performance shall be subject to approval as to form by the Corporation Counsel, which approval shall be endorsed thereon or attached thereto, and section 27 provides that when the form of any contract, with its specifications, and the form of bond for the performance thereof shall have been approved as provided for in section 26, the Board of Water Supply shall advertise for sealed bids or for proposals for the doing of the work, or the furnishing of the materials called for in such approved form of contract. The same section directs that the advertisement shall be published in the City Record and in two daily newspapers published in The City of New York, to be designated by the Board of Water Supply for at least fifteen days consecutively before the time fixed for the closing of the bid box.

"Section 27 contemplates that no advertisement shall be published prior to the actual approval as to form of the contract by the Corporation Counsel. The reason for this is apparent. The contract as originally drawn might not be acceptable in form to the Corporation Counsel, and it might be necessary to make many material changes. The language of the statute is explicit and is based upon sound policy.

"Even if the contract has been approved by the Corporation Counsel prior to its advertisement, the statute restricts advertising to the City Record and to two daily newspapers. I know of no authority for publishing the notices in four papers, as seems to have been done in the present instance.

"If the four newspapers shall present petitions to the Comptroller in conformity with the provisions of section 246 of the Charter, it is possible that the facts, when fully presented, may justify the Comptroller in acting thereon.

"Yours respectfully (Signed) G. L. STERLING, Acting Corporation Counsel."

Charles D. Cords, of the Division of Law and Adjustment of this Department, makes a report concerning this petition under date of June 29, 1911, in which he states:

"The advertisements were inserted as the result of the following order, which was transmitted to 'The Sun':

'Board of Water Supply, City of New York, 165 Broadway, New York, December 7, 1910.

'The Sun, Printing House Square, New York City:

'Gentlemen—We send you herewith advertisements for bids for contracts 63, 65, 66 and 67 (for the construction of portions of the City Tunnel of the Catskill Aqueduct), bids to be opened December 24, 1910, at the offices of the Board of Water Supply, 165 Broadway, seventh floor, at 11 a. m.

'Please publish these advertisements in your paper, commencing December 8, 1910, and continuing in each issue of your paper thereafter, including Sundays and holidays, to and including December 24, 1910.

'These advertisements should be set in agate type, and only the appearing lines should be charged for.

'Please send bill in triplicate for each contract separately, together with affidavit of publication for each contract separately, in duplicate, to this office.

'Please return this order with your bills.

'Very truly yours, BOARD OF WATER SUPPLY,
"Per (signed) THOMAS H. KEOGH, Secretary.'

"It seems that because of the fact that the contracts had not yet been approved by the Corporation Counsel, it was feared by the Board of Water Supply that the provisions in relation to advertising had not been fully complied with, resulting in the following communication to 'The Sun' under date of December 13, 1910:

"Gentlemen—Confirming telephone conversation of this afternoon, kindly discontinue the advertisements requesting bids for contracts 63, 65, 66 and 67, for work on the Catskill Aqueduct, appearing in your paper. The advertisements should not appear in to-morrows issue of your paper. Kindly submit your bill therefor up to and including to-day. Very truly yours, BOARD OF WATER SUPPLY,
'Per (signed) THOMAS H. KEOGH, Secretary.'

"Commissioner Charles N. Chadwick's version of how the advertising was ordered before the contracts were actually approved as to form by the Corporation Counsel, is as follows: That on the supposition that the Corporation Counsel had approved the form of the contracts, Commissioners John A. Bensel and Charles A. Shaw held an informal meeting on December 7, 1910, after which they directed the then Secretary, Mr. Keogh, to have the advertisements inserted. Mr. Chadwick states that his co-Commissioners acted entirely in good faith and with the object only of precipitating the work as much as possible. Mr. Chadwick states that he was informed that the advertising had been given out and that it occurred to him to locate the opinion of the Corporation Counsel which approved the contracts as to form. The approval was not found, and so on December 13, 1910, the Commissioners concluded that the best policy was to discontinue the advertisements until the contracts had been approved. On April 11, 1911, the Corporation Counsel did approve the form of the contracts, without alteration in any particular from the original, subsequent to which orders were issued for the continuance of the advertising. It seems that the order for the original advertising for which claim is herein made, was based upon a misconception of a telephone message which had been received.

"Mr. Chadwick states that there is no doubt about the City's having received great benefit by this advertising; he showed statements which revealed a comparatively wide variance between the various bids received, particularly the contrast between the high and the low bidders; and averred that the additional publicity unquestionably inured to the benefit and profit of the City.

"There seems no question about 'The Sun's' having acted in good faith; it received the order to insert the matter; it published it, and has submitted proofs of publication which are hereto attached and which show the publication of the four different advertisements on the six respective dates claimed.

"The following dates of publication appear, showing the number of lines used, number of times inserted, rate per line, the totals and final total:

"Dates of Publication.	Number of Lines.	Times Published.	Rate per Line.	Total.	Final Total.
December 8, 9, 10, 11, 12, 13......	33	6	$0 40	$79 20	
December 8, 9, 10, 11, 12, 13......	34	6	40	81 60	
December 8, 9, 10, 11, 12, 13......	29	6	40	69 60	
December 8, 9, 10, 11, 12, 13......	36	6	40	86 40	
					$316 80

"It has been ascertained in the Bureau of Audit in this Department that the rate which has always been charged by 'The Sun' for public notices of every character has always been 40 cents a line and this rate has always been allowed, and is still effective. The amounts have been verified, the computations checked, the price charged, therefore, may be deemed reasonable and just."

It is provided in section 27 of chapter 724 of the Laws of 1905, which is an act to provide for a supply of pure and wholesome water for the City, etc., as follows:

"When the form of any contract with its specifications and the form of bond for the performance thereof shall have been approved as provided for in the last section, the board of water supply shall advertise for sealed bids or for proposals for the doing of the work or the furnishing of the materials called for in such approved form of contract. Said advertisement shall be published in the City Record and in two daily newspapers published in The City of New York, to be designated by the board of water supply, for at least fifteen days consecutively before the time fixed for the closing of the bid box."

In a communication addressed to former Comptroller Herman A. Metz, under date of June 12, 1909, Acting Corporation Counsel G. L. Sterling, in construing the above section, said:

"The provisions in this statute as to advertising should, of course, be observed and in fact they are mandatory. Their object is to secure at least a certain amount of advertising so that there can be no secrecy or concealment of what is going on. The object to be secured is publicity, and to obtain the most advantageous terms in the public interest. I do not think these provisions should be construed to mean that there is no power in the Board of Water Supply to publish more extensively than required by the strict terms of the statute. As already noted, there are two clauses that are to be considered in this connection, one in section 1 reading as follows: The Board 'shall have such further powers as may be requisite to the efficient performance of the duties imposed upon it by this Act.' The other is in section 44, which concludes as follows: The Board is authorized and empowered 'to incur other necessary expenses suitable and proper to enable it to carry out the provisions of this Act.'

"In my opinion these clauses, taken in connection with the general scheme and plan of the statute, are sufficient to authorize the Board of Water Supply to contract for more advertising than the lowest limit provided by the other sections of the statute if, in the judgment of the Board, that course is in the interest of the City."

From the facts in this case, as set forth above, it appears that the advertising referred to is not chargeable against the City as a legal liability, owing to the fact that the contracts in connection with which proposals were solicited were not approved by the Corporation Counsel at the time or prior to the publication of the advertisements in question. The fact that said advertisements were published in more papers than were required by statute does not, in my opinion, bar the payment of this claim, as section 27 of chapter 724 of the Laws of 1905, quoted above, does not appear to restrict the publication to certain papers, but rather prescribes those papers in which it is necessary for the advertisement to appear.

It is also disclosed that the petitioner received an order from the Board of Water Supply covering the publication of the advertising in question, and while I do not approve the method or circumstances under which said order was issued; nevertheless, knowledge thereof is not chargeable against the petitioner, who, in good faith, published the advertisements for which payment is now sought.

Mr. Cords states that Commissioner Chadwick, of the Board of Water Supply, is of the opinion that the City has benefitted by said advertisement, and as the price therefor has been certified to as correct, as well as to be reasonable and just, it is respectfully recommended that you issue your certificate pursuant to section 246 of the Greater New York Charter. Respectfully,

H. C. W. MELICK, Auditor of Accounts.

Approved: Albert E. Hadlock, Chief of the Division of Law and Adjustment.

The following resolution was offered:

Resolved, That pursuant to chapter 601 of the Laws of 1907, being section 246 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby determines that the City has received a benefit from "The Sun," and is justly obligated to pay to "The Sun," without interest, the sum of $316.80, for certain advertising rendered the Board of Water Supply from December 8 to December 13, 1910, inclusive, that the said sum shall be paid in full satisfaction of the claim which has been presented on behalf of "The Sun" for the period above mentioned, and shall be paid only upon the execution by said claimant of a full release in favor of the City, in such form as shall be approved by the Corporation Counsel, and the Comptroller is hereby authorized to pay said claim from the fund entitled "C-CM-3, New Water Supply for The City of New York, chapter 724, Laws of 1905."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens, and Richmond—16.

The Secretary presented the following communication from the Engineer in Charge, Bureau of Franchises, office of the Board of Estimate and Apportionment, requesting that the salary schedules adopted June 22, 1911, be modified by having the promotion of Frederick P. Peirce, Topographical Draftsman, from $1,800 to $2,100, become effective as of June 20, 1911:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 3, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—By resolution adopted by the Board of Estimate and Apportionment, June 22, 1911, Frederick P. Peirce, Topographical Draftsman in this office, was promoted to the position of Assistant Engineer at $2,100 per annum. The Municipal Civil Service Commission has declined to pass the payroll as Assistant Engineer at this salary, due to the existence of a preferred eligible list and other matters which they have not definitely stated.

I would therefore request that the matter be presented to the Board at its meeting of July 6, 1911, with the recommendation that the Salary Schedules be modified by having the promotion become effective as Topographical Draftsman at $2,100. The position of Topographical Draftsman should be effective as of June 20, 1911. The grade of Topographical Draftsman at $2,100 has already been established.

Yours very truly, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 22, 1911, which reads as follows:

> Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules for salary increases to be paid from other than budgetary funds under the jurisdiction of the Board of Estimate and Apportionment for the year 1911, as follows:
>
> *Board of Estimate and Apportionment.*
>
> General Administration—
>
> Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Clerk, 1, from $750 to $900 per annum, from June 1, 1911	$150 00
Clerk, 1, from $300 to $480 per annum, from June 1, 1911	180 00
Stenographer and Typewriter, 1, from $1,500 to $2,100 per annum, from June 1, 1911	600 00
Stenographers and Typewriters, 2, from $1,500 to $1,650 per annum, from June 1, 1911	300 00
Stenographer and Typewriter, 1, from $1,350 to $1,650 per annum, from June 1, 1911	300 00
Stenographers and Typewriters, 2, from $1,350 to $1,500 per annum, from June 1, 1911	300 00

Public Improvements and Franchises, Office of Chief Engineer—

Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Assistant Engineer, 1, from $3,000 to $3,300 per annum, from June 1, 1911	$300 00
Stenographer and Typewriter, 1, from $2,250 to $2,700 per annum, from June 20, 1911	450 00

Division of Public Improvements—

Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Engineer, 1, from $6,000 to $7,500 per annum, from June 1, 1911	$1,500 00
Assistant Engineer, 1, from $3,000 to $3,500 per annum, from June 1, 1911	500 00
Assistant Engineer, 1, from $2,400 to $2,700 per annum, from June 1, 1911	300 00
Assistant Engineer, 1, from $2,250 to $2,700 per annum, from June 20, 1911	450 00

Stenographer and Typewriter, 1, from $1,500 to $1,800 per annum, from June 1, 1911	300 00
Topographical Draftsman, 1, from $2,000 to Assistant Engineer at $2,400 per annum, from June 1, 1911	400 00
Clerk, 1, from $1,350 to $1,650 per annum, from June 20, 1911	300 00
Clerk, 1, from $540 to $750 per annum, from June 1, 1911	210 00
Clerk, 1, from $480 to $750 per annum, from June 20, 1911	270 00

Division of Franchises—

Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Engineer, 1, from $6,000 to $7,500 per annum, from June 1, 1911	$1,500 00
Assistant Engineer, 1, from $3,300 to $3,800 per annum from June 20, 1911	500 00
Assistant Engineer, 1, from $2,400 to $2,700 per annum, from June 1, 1911	300 00
Assistant Engineer, 1, from $2,400 to $2,700 per annum, from June 20, 1911	300 00
Topographical Draftsman, 1, *from* $1,800 *to Assistant Engineer at* $2,100 *per annum, from June* 1, 1911	300 00
Clerk, 1 from $2,850 to $3,150 per annum, from June 20, 1911	300 00
Clerk, 1, from $2,400 to $2,550 per annum, from June 1, 1911	150 00
Clerk, 1, from $1,500 to $1,800 per annum, from June 1, 1911	300 00
Clerk, 1, from $1,050 to $1,200 per annum, from June 1 1911	150 00
Clerk 1, from $600 to $750 per annum, from June 20, 1911	150 00
Clerk, 1, from $300 to $480 per annum, from June 1, 1911	180 00
Law Clerk, 1, from $1,650 to $1,950 per annum, from June 20, 1911	300 00
Stenographer and Typewriter, 1, from $1,200 to $1,350 per annum, from June 1, 1911	150 00
Stenographers and Typewriters, 2, from $1,050 to $1,350 per annum, from June 1, 1911	600 00

—be and the same is hereby amended by striking therefrom the item, "Topographical Draftsman, 1, *from* $1,800 *to Assistant Engineer at* $2,100 *per annum, from June* 1, 1911, $300," *and inserting in place thereof the item "Topographical Draftsman,* 1, *from* $1,800 *to* $2,100 *per annum, from June* 20, 1911, $300."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 22, 1911, which reads as follows:

"Resolved, That the Board of Estimate and Apportionment hereby fixes the salaries of the following named employees in the office of the Board of Estimate and Apportionment, to take effect June 1, 1911:

Office of the Secretary—

	Per Annum.
Edward P. O'Connor, Stenographer and Typewriter, at	$2,100 00
Orrin N. Webster, Stenographer and Typewriter, at	1,650 00
Bessie M. Ross, Stenographer and Typewriter, at	1,650 00
Mary V. Murphy, Stenographer and Typewriter, at	1,650 00
Charlotte V. Eaton, Stenographer and Typewriter, at	1,500 00
Theresa Stern, Stenographer and Typewriter, at	1,500 00
Horace F. Burpee, Clerk, at	900 00
John Kennedy, Clerk, at	480 00
Office of Chief Engineer—	
Frederick W. Koop, Assistant Engineer, at	3,300 00
Division of Public Improvements—	
Arthur S. Tuttle, Engineer in Charge, at	7,500 00
Frederick F. Fuess, Assistant Engineer, at	3,500 00
Vernon S. Moon, Assistant Engineer, at	2,700 00
Berthold Scheiman, Assistant Engineer (title changed from Topographical Draftsman), at	2,400 00
John W. Meade, Stenographer and Typewriter, at	1,800 00
Douglas J. Fitts, Clerk, at	750 00

Bureau of Franchises—

Harry P. Nichols, Engineer in Charge, at	7,500 00
Edward W. Libaire, Assistant Engineer, at	2,700 00
Frederick P. Peirce, Assistant Engineer (title changed from Topographical Draftsman), at	2,100 00
James D. McGann, Clerk, at	2,550 00
John F. Conway, Clerk, at	1,800 00
Joseph A. Young, Clerk at	1,200 00
Eugene J. Carlin, Clerk, at	480 00
Josephine E. A. Schmidt, Stenographer and Typewriter, at	1,350 00
Florence B. McQueeny, Stenographer and Typewriter, at	1,350 00
Josephine Brennan, Stenographer and Typewriter, at	1,350 00

—and fixes the salaries of the following named employees, to take effect June 20, 1911:

Office of the Chief Engineer—

John E. Kelly, Stenographer and Typewriter, at	2,700 00

Division of Public Improvements—

John E. Hill, Assistant Engineer, at	2,700 00
James J. O'Connor, Clerk, at	1,650 00
John J. Ahearn, Clerk, at	750 00

Bureau of Franchises—

John A. McCollum, Assistant Engineer, at	3,800 00
Charles H. Vanderbilt, Assistant Engineer, at	2,700 00
Victor McLaughlin, Clerk, at	3,150 00
Martin J. Karl, Clerk, at	750 00
Joseph A. Devery, Law Clerk, at	1,950 00

—and be it further

Resolved, That the Secretary be and he hereby is authorized to make the following appointments in his office:

	Per Annum.
Clerk, 1, at	$300 00
Stenographers and Typewriters, 2 at (each)	750 00"

—be and the same is hereby amended by striking therefrom the item *"Frederick P. Peirce, Assistant Engineer (title changed from Topographical Draftsman), at $2,100,"* and inserting the item *"Frederick P. Peirce, Topographical Draftsman, at $2,100"* immediately following the item *"Charles H. Vanderbilt, Assistant Engineer, at $2,700."*

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 22, 1911, which reads as follows:

"Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised for the Board of Estimate and Apportionment for the year 1911, as follows:

Division of Public Improvements—

1348. Salaries:

Engineer in Charge	$6,000 00
Assistant Engineer	3,000 00
Assistant Engineer	2,400 00
Assistant Engineer	2,250 00
Assistant Engineer	2,000 00
Topographical Draftsman	1,800 00
Stenographer and Typewriter	1,500 00
Stenographer and Typewriter	1,150 00
Clerk	1,350 00
Clerk	540 00
Clerk	480 00

Division of Franchises—

1349. Salaries:

Engineer in Charge	$6,000 00
Assistant Engineer	3,300 00
Assistant Engineers, 2 at $2,400	4,800 00
Assistant Engineer	1,800 00
Clerk	2,850 00
Clerk	2,400 00
Clerk	1,500 00
Clerk	1,050 00
Clerk	600 00
Clerk	300 00
Law Clerk	1,650 00
Stenographer and Typewriter	1,200 00
Stenographers and Typewriters, 2 at $1,050	2,100 00
Typewriting Copyist	750 00"

—be and the same is hereby amended by striking from Schedule 1,349, Salaries, the item *"Assistant Engineer, $1,800,"* and inserting in place thereof the item *"Topographical Draftsman, $1,800."*

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a communication from the Secretary of the Brooklyn League, inclosing copy of resolutions adopted by the Committee on Education of the Brooklyn League, urging the Board to grant such increase in their appropriation for the maintenance of public schools of the City in the year 1912 as will permit the payment of the salaries of all teachers for whom school rooms can be provided up to the limit of the requirements for instruction in the established grades of public schools in the City of New York and that increased provision be made for the giving of instruction in drawing and physical and industrial training; also that the appropriation of a sum not less than ten millions of dollars be appropriated in the Corporate Stock Budget for 1911 for new school sites, buildings and equipment.
—which was referred to the Budget Committee and to the Corporate Stock Budget Committee.

The Secretary presented the following communication from the City Chamberlain requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 35 supporting the appropriation made in the Budget for the year 1911, for the office of the City Chamberlain, providing for the elimination of a Clerk at $1,200 per annum and the substitution of one at $900 per annum, said modification to take effect July 1, 1911:

Office of the Chamberlain, City of New York, June 29, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller, City of New York:*

Dear Sir—I desire to withdraw my request made under date of June 19, 1911, for a modification in the salary schedule of the employees of this office, by providing for 4 Clerks at $1,350 and 1 Clerk at $900, in place of 3 Clerks at $1,350 and 1 Clerk at $1,200, leaving a balance unassigned of $150.

Instead, I respectfully request that the salary schedule be modified so as to provide for 1 Clerk at $900 in place of 1 Clerk at $1,200, leaving a balance unassigned of $300. Yours very truly, R. R. MOORE, Chamberlain.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the City Chamberlain requested modification of the salary schedule for his office for the year 1911. In connection therewith we report as follows:

It is proposed to strike out a Clerk at $1,200 per annum, and substitute one at $900; the balance of $300 to be scheduled as unassigned.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase	Decrease.
35.	Clerk, 1 at $1,200	......	$1,200 00	......	$600 00
	Clerk	$900 00	......	$450 00	......
	Unassigned balance	300 00	......	150 00	......
		$1,200 00	$1,200 00	$600 00	$600 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the City Chamberlain, in the Department of Finance, for the year 1911, to take effect July 1, as follows:

Department of Finance.

The Chamberlain—

35. Salaries:

Chamberlain	$12,000 00
Deputy Chamberlain	5,000 00
Bookkeepers, 2 at $2,850	5,700 00
Bookkeeper	2,000 00
Bookkeeper	1,950 00
Bookkeeper	1,800 00
Clerks, 2 at $1,650	3,300 00
Clerk	1,500 00
Clerks, 3 at $1,350	4,050 00
Clerks, 3 at $1,050	3,150 00
Stenographer	1,200 00
Clerk	900 00
Secretary	3,000 00
Warrant Clerk	2,500 00
Warrant Clerks, 3 at $1,650	4,950 00
Warrant Clerk	1,500 00
Warrant Clerk	1,350 00
Bank Messengers, 2 at $1,200	2,400 00
Examiner of Coupons, etc	1,000 00
Unassigned Balance	300 00
	$59,550 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Queens requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, relative to the revision of the schedule of salaries and wages for the Topographical Bureau of the office of said Borough President, to take effect July 1, 1911, providing for an increase of $300 in the salary of one incumbent and of $150 for twenty-eight incumbents, and for increasing the number of Laborers at $2.50 per diem:

The City of New York, offices Commissioner of Public Works of the Borough of Queens, Long Island City, June 6, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, and Chairman Board of Estimate and Apportionment:*

Dear Sir—At a meeting of the Corporate Stock Budget Committee of the Board of Estimate and Apportionment, consisting of the Comptroller and the President of the Board of Aldermen, held May 22, 1911, we were informed that a recommendation would be sent to the full Board that this office be allowed two hundred and four thousand dollars, ($204,000.00) for the use of the Topographical Bureau, beginning July 1, 1911, which, with the balance on hand, would approximate an authorization of two hundred and twenty-four thousand dollars ($224,000.00), available that date.

It, therefore, becomes necessary, in order to meet the additional demands of the public and to get this Bureau on a proper working basis, to revise the present schedule of positions allowed by your Board, and to that end we desire a resolution authorizing the following schedule of positions for the Topographical Bureau, this office, to be effective July 1, 1911, to wit:

President of the Borough of Queens, Topographical Bureau.

Salaries, regular force:

Engineer in charge	1 at	$5,000 00
Assistant Engineer	1 at	4,000 00
Assistant Engineer	1 at	2,850 00
Assistant Engineer	1 at	3,000 00
Assistant Engineers	3 at	2,550 00
Assistant Engineers	2 at	2,250 00
Assistant Engineers	8 at	2,100 00
Assistant Engineers	3 at	1,950 00
Assistant Engineers	5 at	1,800 00
Transitman and Computer	1 at	1,800 00
Transitmen and Computers	13 at	1,650 00
Transitmen and Computers	4 at	1,500 00
Transitmen and Computers		1,200 00
Topographical Draughtsmen	5 at	1,650 00
Topographical Draughtsmen	8 at	1,800 00
Topographical Draughtsmen	20 at	1,500 00
Topographical Draughtsmen	12 at	1,350 00
Topographical Draughtsmen		1,200 00
Computers	3 at	1,800 00
Computers	3 at	1,200 00
Rodmen	2 at	1,200 00
Rodmen	4 at	1,050 00
Axemen	24 at	900 00
Draughtsman's Helper	1 at	900 00
Clerk	1 at	1,200 00
Clerk	1 at	540 00
Stenographer and Typewriter	1 at	1,050 00
Stenographer and Typewriter	1 at	900 00
Typewriting Copyist	1 at	1,050 00
Messenger	1 at	1,200 00
Messenger	1 at	1,050 00

Which amends the present schedule by eliminating the positions of

Assistant Engineer	1 at	$1,800 00
Transitmen and Computers	2 at	1,350 00
Topographical Draughtsmen	6 at	1,350 00
Rodmen	1 at	900 00
Messenger	1 at	1,050 00
Clerk	1 at	1,050 00

—and adding thereto

Assistant Engineer	1 at	2,100 00
Transitmen and Computers	2 at	1,500 00
Topographical Draughtsmen	16 at	1,500 00
Computers	3 at	1,200 00
Rodman	1 at	1,050 00
Axemen	8 at	900 00
Messenger	1 at	1,200 00

—and the positions of Topographical Draughtsmen at $1,200, and Transitmen and Computers at $1,200, the number of incumbents to be limited only by the requirements of the Bureau and the funds at hand.

And to amend the additional schedule, "non-technical positions," allowed by your Board, to read as follows

Messenger, 1 at, per diem (302 days)	$4 50
Messenger, 1 at, per diem (302 days)	4 00
Foremen, 2 at, per diem (302 days)	4 00
Assistant Foremen, 2 at, per diem (302 days)	3 25
Driver, 1 at, per diem (302 days)	3 00
Driver, 1 at, per diem (302 days)	2 75
Flagger, 1 at, per diem (302 days)	4 00

Laborers, 2 at, per diem (302 days)	4 00
Laborers, 12 at, per diem (302 days)	3 00
Laborers, 8 at, per diem (302 days)	2 75
Laborers, 13 at, per diem (302 days)	2 50
An addition being made of eight (8) laborers, at, per diem	2 50

Our Engineer reports that it is imperative that his force should be materially increased; that the technical men employed in this Bureau receive less money than is being paid for similar service in other Departments and Bureaus of the City Government; that since January, 1910, twenty-five technical men have resigned from this Bureau, six within the last month, to accept positions in other Departments in the Municipality at an increase in salary of from $150.00 to $300.00 per annum. That this is a very serious matter—most of the men having grown up with this work in the Borough of Queens, and to obviate this difficulty in Administration—he recommends that salaries be increased.

Pursuant therewith and in accordance with the conditions of the resolution of your honorable Board, dated September 13, 1910, your approval is respectfully requested to increase the salaries of the following employees, to wit:

	Per Annum.
Conrad J. Mueller, Assistant Engineer, from	$1,800 00 to $2,100 00
Ignatius Conway, Transitman and Computer, from	1,350 00 to 1,500 00
William H. Clayton, Transitman and Computer, from	1,350 00 to 1,500 00
Benjamin Weiss, Topographical Draughtsman, from	1,350 00 to 1,500 00
Charles T. Chatfield, Topographical Draughtsman, from	1,350 00 to 1,500 00
Earl K. Williams, Topographical Draughtsman, from	1,350 00 to 1,500 00
William H. Bertram, Topographical Draughtsman, from	1,350 00 to 1,500 00
Edward P. King, Topographical Draughtsman, from	1,350 00 to 1,500 00
Edmond F. O'Brien, Topographical Draughtsman, from	1,350 00 to 1,500 00
Hans Tradelius, Topographical Draughtsman, from	1,350 00 to 1,500 00
Harry K. Murphy, Topographical Draughtsman, from	1,350 00 to 1,500 00
Myron A. Finke, Topographical Draughtsman, from	1,350 00 to 1,500 00
Anthony B. Grande, Topographical Draghtsman, from	1,350 00 to 1,500 00
Charles T. Nafey, Topographical Draughtsman, from	1,350 00 to 1,500 00
Rudolph G. Pundt, Topographical Draughtsman, from	1,350 00 to 1,500 00
Emil F. Zipfel, Topographical Draughtsman, from	1,350 00 to 1,500 00
Nathan L. Weiss, Topographical Draughtsman, from	1,350 00 to 1,500 00
Paul Klepper, Topographical Draughtsman, from	1,350 00 to 1,500 00
George S. Nobles, Topographical Draughtsman, from	1,200 00 to 1,350 00
Robert Lowenderg, Topographical Draughtsman, from	1,200 00 to 1,350 00
Alfred R. Scott, Topographical Draftsman, from	1,200 00 to 1,350 00
Richard C. Fulton, Topographical Draughtsman, from	1,200 00 to 1,350 00
Raymond G. Clayton, Topographical Draughtsman, from	1,200 00 to 1,350 00
George G. Doran, Topographical Draughtsman, from	1,200 00 to 1,350 00
Fred. Woehrlin, Topographical Draughtsman, from	1,200 00 to 1,350 00
Harry Sylvester, Topographical Draughtsman, from	1,200 00 to 1,350 00
Nazareth Haroutun, Topographical Draughtsman, from	1,200 00 to 1,350 00

Engineer Crowell's recapitulation of his force by six months' periods, beginning January, 1910, is as follows:

	Jan. 1, 1910.	June 1, 1910.	Jan. 1, 1911.	Proposed 1911-1912.
Employees	232	205	159	191
Annual salary	$289,025 04	$258,933 84	$223,307 50	$258,307 50

Respectfully submitted,

LAWRENCE GRESSER, President of the Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

The Board of Estimate and Apportionment:

Gentlemen—In relation to a request of the President of the Borough of Queens on June 6, 1911, for modification of the non-budgetary schedules for the Topographical Bureau in his office, we report as follows:

Twenty-nine increases in salary are proposed as follows:

Name and Date of Appointment.	Present Rate.	Proposed Rate.
Assistant Engineer—		
Conrad J. Mueller, January 1, 1898	$1,800 00	$2,100 00
Transitmen and Computers—		
Ignatius Conway, October 16, 1908	1,350 00	1,500 00
William H. Clayton, April 11, 1907	1,350 00	1,500 00
Topographical Draftsmen—		
Benjamin Weiss, September 16, 1907	1,350 00	1,500 00
Charles T. Chatfield, September 4, 1907	1,350 00	1,500 00
Earl K. Williams, September 1, 1907	1,350 00	1,500 00
William H. Bertram, September 12, 1907	1,350 00	1,500 00
Edward P. King, September 1, 1907	1,350 00	1,500 00
Edmond F. O'Brien, September 10, 1907	1,350 00	1,500 00
Hans Tradelius, March 15, 1907	1,350 00	1,500 00
Harry K. Murphy, September 1, 1907	1,350 00	1,500 00
Myron A. Finke, September 16, 1907	1,350 00	1,500 00
Anthony B. Grande, September 9, 1907	1,350 00	1,500 00
Charles T. Nafey, September 16, 1907	1,350 00	1,500 00
Rudolph G. Pundt, September 1, 1907	1,350 00	1,500 00
Emil F. Zipfel, September 1, 1907	1,350 00	1,500 00
Nathan L. Weiss, October 1, 1906	1,350 00	1,500 00
Paul Klepper, July 1, 1906	1,350 00	1,500 00
George S. Nobles, September 1, 1909	1,200 00	1,350 00
Robert Lowenberg, October 5, 1909	1,200 00	1,350 00
Alfred R. Scott, September 9, 1907	1,200 00	1,350 00
Richard C. Fulton, September 9, 1907	1,200 00	1,350 00
Raymond G. Clayton, September 9, 1907	1,200 00	1,350 00
George G. Dorn, November 1, 1906	1,200 00	1,350 00
Fred. Woehrlin, September 1, 1909	1,200 00	1,350 00
Harry Sylvester, March 23, 1911	1,200 00	1,350 00
Nazareth Haroutun, September 1, 1907	1,200 00	1,350 00
Messenger—		
William T. Stevenson, July 21, 1904	1,050 00	1,200 00
Rodman—		
Harold Larsen, March 3, 1908	900 00	1,050 00

One increase is for $300 per annum, and twenty-eight for $150, or a total increase in yearly cost of $4,500. The Engineer in charge of the Bureau states that the increases are proposed to keep the staff from being depleted by transfer to other City departments at higher rates of compensation. He states that since January 1, 1911, twenty-five employees have been transferred at increases of from $150 to $300 per annum. In view of these statements, the proposed promotions would appear to be reasonable.

The increase for the Messenger from $1,050 to $1,200 per annum, cannot be granted at this time, as the $1,200 grade does not appear to have been established pursuant to the provisions of section 56 of the Greater New York Charter.

It is proposed to increase the force by the following positions:

Topographical Draftsman,	1 at	$1,500 00
Computers	3 at	1,200 00
Axemen	8 at	900 00
Laborers (per day)	8 at	2 50

Request also is made for an unlimited number of Topographical Draftsmen, at $1,200 per annum, and Transitmen and Computers, at $1,200.

There seems to be no reason why any increase in force, except for Laborers, should be granted at the present time, as the following vacancies exist in the present schedule, and have existed in a number of cases since January and February:

Transitman and Computer	1 at	$1,650 00
Transitman and Computer	1 at	1,500 00
Topographical Draftsman	1 at	1,500 00
Topographical Draftsmen	2 at	1,350 00
Topographical Draftsmen	2 at	1,200 00
Axemen	3 at	900 00
Clerk	1 at	1,200 00

Clerk	1 at	1,050 00
Laborer (per day)	1 at	4 00

The request provides for striking out only one of these positions, namely, the Clerk, at $1,050. We recommend, therefore, that only the eight Laborers, at $2.50, be added, and that the vacant position of Laborer at $4 per day be dropped.

The attached resolution, if adopted, will permit of the increases and the additional Laborers. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules of salaries and wages for the Topographical Bureau in the office of the President of the Borough of Queens, for the year 1911, as revised, to take effect July 1, 1911, as follows:

President, Borough of Queens.

Topographical Bureau—

Salaries, Regular Force:

Engineer in Charge	1 at	$5,000 00
Assistant Engineer	1 at	4,000 00
Assistant Engineer	1 at	3,000 00
Assistant Engineer	1 at	2,850 00
Assistant Engineers	3 at	2,550 00
Assistant Engineers	2 at	2,250 00
Assistant Engineers	8 at	2,100 00
Assistant Engineers	3 at	1,950 00
Assistant Engineers	5 at	1,800 00
Transitman and Computer	1 at	1,800 00
Transitmen and Computers	13 at	1,650 00
Transitmen and Computers	4 at	1,500 00
Topographical Draftsmen	5 at	1,650 00
Topographical Draftsmen	8 at	1,800 00
Topographical Draftsmen	19 at	1,500 00
Topographical Draftsmen	12 at	1,350 00
Topographical Draftsmen	3 at	1,200 00
Computers	3 at	1,800 00
Rodmen	2 at	1,200 00
Rodmen	4 at	1,050 00
Axemen	16 at	900 00
Draftsman's Helper	1 at	900 00
Clerk	1 at	1,200 00
Clerk	1 at	540 00
Stenographer and Typewriter	1 at	1,050 00
Stenographer and Typewriter	1 at	900 00
Typewriting Copyist	1 at	1,050 00
Messengers	2 at	1,050 00

Wages, Regular Force:

Messenger, 1 at per day (302 days)	$4 00
Messenger, 1 at per day (302 days)	4 50
Foremen, 2 at per day (302 days)	4 00
Assistant Foremen, 2 at per day (302 days)	3 25
Driver, 1 at per day (302 days)	3 00
Driver, 1 at per day (302 days)	2 75
Flagger, 1 at per day (302 days)	4 00
Laborer, 1 at per day (302 days)	4 00
Laborers, 12 at per day (302)	3 00
Laborers, 8 at per day (302 days)	2 75
Laborers, 13 at per day (302 days)	2 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Docks and Ferries requesting, and report of the Comptroller recommending, the modification of salary schedule No. 146 and budgetary part allowance No. 154 supporting appropriation made in the Budget for the year 1911, for said Department, providing for the positions of First Deputy Dock Commissioner and Second Deputy Dock Commissioner, at $5,000 each per annum, involving transfer of $2,750:

Department of Docks and Ferries, Pier "A," North River, New York, June 14, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, and Chairman of the Board of Estimate and Apportionment:*

Sir—Chapter 301 of the Laws of 1911 provides for the appointment of 2 Deputy Commissioners for this Department, to be known as First Deputy and Second Deputy. It further provides that the salary of the Commissioner of Docks and of the 2 Deputy Commissioners shall be fixed by the Board of Estimate and Apportionment of The City of New York.

This Department's Budget for the year 1911, in Code No. 146, provides for 1 Commissioner, at $7,500 per annum and for 1 Deputy Commissioner, at $4,500 per annum. I have forwarded to you a recommendation for fixing the salary of the Commissioner of Docks at $7,500 per annum, the present rate, and for fixing salaries for the 2 Deputy Commissioners at the rate of $6,000 per annum each.

In order to provide for the compensation of the First Deputy Commissioner and of the Second Deputy Commissioner at the rate of $6,000 per annum each, it will be necessary to increase Item No. 146, General Administration, Salaries, from $61,500, as at present, to $69,000, the amount required to meet the changed conditions.

This sum ($7,500) may be transferred from Item No. 154, Budgetary Part Allowance, to Item No. 146 to meet the increases noted. There was allowed in Item No. 154 (budgetary part allowance) $23,674.

Of this amount there has been expended to June 8, 1911	$3,300 00
Estimated amount required in this item for remainder of the year	11,200 00
For transfer to item No. 146	7,500 00
	$22,000 00
Leaving an estimated balance at the end of the year in item No. 154	$1,674 00

With these changes, item No. 146, General Administration, Salaries, will be as follows:

146. Code No. 146, General Administration, Salaries as Revised—

Commissioner	$7,500 00
Deputy Commissioners, 2 at $6,000	12,000 00
Secretary to Commissioner	3,000 00
Secretary	4,000 00
Assistant Secretary	3,600 00
Chief Clerk	4,000 00
Clerks, 2 at $2,100	4,200 00
Clerks, 3 at $1,800	5,400 00
Clerk, 1 at $1,500	1,500 00
Clerks, 1 at $900	900 00
Stenographers and Typewriters, 3 at $1,500	4,500 00
Stenographers and Typewriters, 1 at $1,200	1,200 00
Stenographers and Typewriters, 3 at $900	2,700 00
Chief Confidential Inspector	2,200 00
Assistant Confidential Inspectors, 2 at $1,200	2,400 00
Messengers, 4 at $1,200	4,800 00
Telephone Operators, 2 at $1,050	2,100 00
Enginemen (Locomobile), 2 at $1,500	3,000 00
	$69,000 00

I request that the 1911 Budget Schedules be changed as outlined above. Attention is called to the fact that the changes indicated herein will not increase the salary appropriations for this Department for the current year. Yours very truly,

CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 14, 1911, the Commissioner of Docks requested modification of a salary schedule and a budgetary part salary schedule, involving the transfer of $7,500, in the Department of Docks and Ferries for the year 1911. In connection therewith I report as follows:

The request is in General Administration, No. 146, and the Bureau of Enginering, No. 154. In No. 146 it is proposed to add a Deputy Commissioner, at $6,000 per annum, and to increase the compensation of the present Deputy Commissioner from $4,500 to the same rate. The total increase of $7,500 is to be covered by transfer from the budgetary allowance of $23,674 for No. 154.

Chapter 301 of the Laws of 1911 provides for the appointment of two Deputy Commissioners, their rates of compensation to be fixed by the Board of Estimate and Apportionment. The $6,000 rate was requested by the Commissioner. The rate of $5,000 for each position has been recommended to your Board by your Select Committee.

The budgetary expenditures in No. 154 to June 8, 1911, amounted to $3,300. The estimated expenditures for the rest of the year amount to $11,200, leaving a balance available for transfer of $9,174.

Code. No.	Title.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
146.	Deputy Commissioner, 1 at $4,500	$4,500 00	....	$2,250 00	....
	First Deputy Commissioner, at $5,000	....	$5,000 00	....	$2,500 00
	Second Deputy Commissioner, at $5,000	....	5,000 00	....	2,500 00
154.	Budgetary part allowance	5,500 00	....	2,750 00	....
		$10,000 00	$10,000 00	$5,000 00	$5,000 00

I recommend the adoption of the attached resolution granting the request to the extent of $5,000 for each Deputy Commissioner.

Respectfully, WM. A. PRENDERGAST, Comptroller:

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Docks and Ferries for the year 1911, as follows:

Department of Docks and Ferries.

General Administration—

146. Salaries:

Commissioner	$7,500 00
First Deputy Commissioner	5,000 00
Second Deputy Commissioner	5,000 00
Secretary to the Commissioner	3,000 00
Secretary	4,000 00
Assistant Secretary	3,600 00
Chief Clerk	4,000 00
Clerks, 2 at $2,100 each	4,200 00
Clerks, 3 at $1,800 each	5,400 00
Clerk	1,500 00
Clerk	900 00
Stenographers and Typewriters, 3 at $1,500 each	4,500 00
Stenographer and Typewriter	1,200 00
Stenographers and Typewriters, 3 at $900 each	2,700 00
Chief Confidential Inspector	2,200 00
Assistant Confidential Inspectors, 2 at $1,200 each	2,400 00
Messengers, 4 at $1,200 each	4,800 00
Telephone Operators, 2 at $1,050 each	2,100 00
Enginemen (Locomobile), 2 at $1,500 each	3,000 00
	$67,000 00

Bureau of Engineering.

154. Salaries:

Chief Engineer	1 at	$10,000 00
Deputy Chief Engineer	1 at	6,000 00
Assistant Engineers	2 at	4,000 00

Inspectors of Regulating, Grading and Paving	3 at	1,500 00
Inspectors of Pier Buildings	13 at $5 a day (365 days)	
Mechanical Engineer	1 at	2,400 00
Clerk	1 at	1,800 00
Topographical Draftsman	1 at	1,800 00
Inspectors of Dredging	6 at	1,500 00
Inspectors of Dredging	6 at	1,200 00
Superintendent of Pier Construction	1 at	2,100 00
Assistant Engineers	3 at	4,000 00
Assistant Engineers	2 at	3,000 00
Assistant Engineers	2 at	2,700 00
Assistant Engineers	7 at	2,400 00
Assistant Engineers	9 at	2,100 00
Assistant Engineers	3 at	1,800 00
Transitmen and Computers	4 at	1,800 00
Transitman and Computer	1 at	1,500 00
Transitman	1 at	1,800 00
Transitmen	2 at	1,500 00
Levelers	5 at	1,350 00
Chainmen and Rodmen	16 at	1,080 00
Rodmen	2 at	1,080 00
Hydrographers	3 at	1,800 00
Draftsman	1 at	2,100 00
Draftsman	1 at	1,800 00
Draftsman, Architectural	1 at	1,600 00
Draftsman, Mechanical, Sanitary	1 at	1,600 00
Draftsman, Topographical	1 at	1,800 00
Draftsmen, Topographical	5 at	1,600 00
Draftsman, Topographical	1 at	1,350 00
Draftsman, Topographical	1 at	1,200 00
Clerks	3 at	3,000 00
Clerks	3 at	2,100 00
Clerks	6 at	1,800 00
Clerk	1 at	1,500 00
Clerks	3 at	1,200 00
Clerks	10 at	1,050 00
Clerks	2 at	900 00
Stenographers and Typewriters	3 at	1,500 00
Stenographer and Typewriter	1 at	1,000 00
Stenographers and Typewriters	6 at	900 00
Foreman of Yard	1 at	1,800 00
Foremen of Dock Laborers	2 at	1,800 00
Painter	1 at	1,350 00
Messengers	6 at	1,200 00
Searcher	1 at	2,000 00
Engineman, Locomobile	1 at	1,500 00
Supervising Diver	1 at	1,800 00

Budgetary part allowance, $20,924.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Docks and Ferries for the year 1911, as follows:

From

Bureau of Engineering—

154. Salaries $2,750 00

To

General Administration—

146. Salaries $2,750 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The Secretary presented the following communication from the Department of Taxes and Assessments requesting, and report of the Comptroller recommending, modification of salary schedule supporting the appropriation made to said Department in the Budget for the year 1911, providing for additionl grades of positions adopted by the Board of Estimate and Apportionment on June 22, 1911:

Department of Taxes and Assessments of The City of New York, Borough of Manhattan, Hall of Records, June 30, 1911.

To the Honorable, the Board of Estimate and Apportionment, 277 Broadway, New York:

Gentlemen—In compliance with the resolutions of the Board of Taxes and Assessments adopted at a meeting held June 29, 1911, request is hereby made that the Board of Estimate and Apportionment will make such amendments to the lines in the supporting schedules or in the schedules supporting the appropriations for the Department of Taxes and Assessments for the year 1911, relating to salaries as is shown by the accompanying schedule. This request being made in order to carry out and comply with the resolution establishing additional grades adopted by the Board of Estimate and Apportionment June 22, 1911, and a resolution of the Board of Aldermen authorizing the issue of special revenue bonds. Respectfully,

LAWSON PURDY, President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 30, 1911, the President of the Department of Taxes and Assessments requested modification of the 1911 salary schedule supporting the Budget appropriation for the Department. In connection therewith I report as follows:

On June 22, 1911, the Board of Estimate and Apportionment approved a request involving the establishment for the Department as provided by section 56 of the Charter, of various positions and grades of positions. The items have been approved by the Board of Aldermen as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Deputy Tax Commissioner	$4,500 00	1
Deputy Tax Commissioner	4,000 00	9
Deputy Tax Commissioner	3,750 00	3
Deputy Tax Commissioner	2,400 00	Unlimited.
Assistant Tax Commissioner	5,000 00	1
Secretary	4,500 00	1
Confidential Stenographer	1,800 00	1
Confidential Stenographer	1,650 00	2
Messenger	1,800 00	1
Messenger	1,500 00	1
Searcher	1,500 00	3

The Commissioners state that the proposed increases in salaries for the present force are divided as follows:

Deputy Tax Commissioners and Executive Staff	$46,800 00
Clerks	9,960 00
Searchers, Messengers and Stenographers	1,500 00
	$58,260 00

The Commissioners further state that the additional force is to consist of the following:

	Cost Per Annum.
Twelve Deputy Tax Commissioners, at $2,400	$28,800 00
Fourteen Clerks, at $750	10,500 00
One Clerk, at $1,800	1,800 00
One Clerk, at $1,500	1,500 00
One Clerk, at $1,050	1,050 00
Two Clerks, at $600	1,200 00
	$44,850 00

The proposed increased cost in compensation and the cost of the additional force on this basis would make a total increase in annual cost of $103,110. Vacant positions are eliminated and the unassigned balance reduced by $1,170, so that the net increase is $91,290.

On June 27, 1911, the Board of Aldermen adopted a resolution requesting the Board of Estimate and Apportionment to authorize special revenue bonds amounting to $45,645 for the purpose of paying increases in salaries in the Department. This amount is exactly one-half of the net annual increase and will therefore carry the new force from July 1 to December 31.

Submitted herewith is a schedule showing the changes in the Budget lines in accordance with the request of the Commissioners:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
1342.	Secretary at $4,000	......	$4,000 00	......	$2,000 00
	Secretary at $4,500	4,500 00	......	2,250 00	......
	Assistant to Commissioner, 1 at $3,500	......	3,500 00	......	1,750 00
	Assistant to Commissioner at $5,000	5,000 00	......	2,500 00	......
	Deputy Tax Commissioner at $4,500	4,500 00	......	2,250 00	......
	Deputy Tax Commissioner at $4,000	32,000 00	......	16,000 00	.....
	Deputy Tax Commissioners, 8 at $3,500	......	10,500 00	......	5,250 00
	Deputy Tax Commissioners, 21 at $3,250	45,500 00	......	22,750 00	......
	Deputy Tax Commissioners, 3 at $3,000	9,000 00	......	4,500 00	......
	Deputy Tax Commissioners, 13 at $2,850	......	34,200 00	......	17,100 00
	Deputy Tax Commissioners, 7 at $2,700	27,000 00	......	13,500 00	......
	Deputy Tax Commissioners, 4 at $2,550	22,950 00	......	11,475 00	......
	Deputy Tax Commissioners at $2,400	74,000 00	......	37,200 00	......
	Deputy Tax Commissioners, 16 at $2,250	......	36,000 00	......	18,000 00
	Deputy Tax Commissioners, 3 at $2,100	......	6,300 00	......	3,150 00
	Deputy Tax Commissioners, 14 at $1,950	......	27,300 00	......	13,650 00
	Deputy Tax Commissioners, 17 at $1,800	......	30,600 00	......	15,300 00
	Deputy Tax Commissioner at $1,650	1,650 00	......	825 00	......
	Clerks, 3 at $1,800	5,400 00	......	2,700 00	......
	Clerks, 6 at $1,650	3,300 00	......	1,650 00	......
	Clerks, 20 at $1,500	......	4,500 00	......	2,250 00
	Clerks, 13 at $1,350	1,350 00	......	675 00	......
	Clerks, 24 at $1,200	1,200 00	......	600 00	......
	Clerks, 11 at $1,050	12,600 00	......	6,300 00	......

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
	Clerks, 16 at $750	9,000 00	......	4,500 00	......
	Clerks, 23 at $600	......	11,400 00	......	5,700 00
	Clerks, 2 at $420	......	840 00	......	420 00
	Searchers, 3 at $1,350	......	1,350 00	......	675 00
	Searchers at $1,500	3,000 00	......	1,500 00	......
	Searchers at $1,050	......	1,050 00	......	525 00
	Confidential Stenographers, 2 at $1,500	......	1,500 00	......	750 00
	Confidential Stenographers, 2 at $1,650	3,300 00	......	1,650 00	......
	Confidential Stenographers, 3 at $1,350	......	1,350 00	......	675 00
	Messenger at $1,800	1,800 00	......	900 00	......
	Messenger, 1 at $1,650	......	1,650 00	......	825 00
	Messengers, 2 at $1,350	2,700 00	......	1,350 00	......
	Messengers, 2 at $1,200	......	2,400 00	......	1,200 00
	Book Typewriters at $1,050	5,250 00	......	2,625 00	......
	Book Typewriters, 5 at $900	......	4,500 00	......	2,250 00
	Unassigned balance	......	1,170 00	......	585 00
		$275,400 00	$184,110 00	$137,700 00	$92,055 00
	Amount of yearly increase covered by revenue bond issue	......	91,290 00	......	......
	Cash to be paid by revenue bond issues	......	......	......	45,645 00
	Totals	$275,400 00	$275,400 00	$137,700 00	$137,700 00

I transmit herewith a resolution which if approved by your Board will grant the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised for the Department of Taxes and Assessments for the year 1911, as follows:

Department of Taxes and Assessments—

1342. Salaries:

President	$8,000 00
Commissioners, 6 at $7,000	42,000 00
Secretary	4,500 00
Assistant Secretary	3,200 00
Assistant to Commissioner	5,000 00
Assistants to Commissioner, 6 at $2,500	15,000 00
Deputy Tax Commissioner	4,500 00
Deputy Tax Commissioners, 8 at $4,000	32,000 00
Deputy Tax Commissioners, 5 at $3,500	17,500 00
Deputy Tax Commissioners, 16 at $3,250	52,000 00
Deputy Tax Commissioners, 6 at $3,000	18,000 00
Deputy Tax Commissioner	2,850 00
Deputy Tax Commissioners, 17 at $2,700	45,900 00
Deputy Tax Commissioners, 13 at $2,550	33,150 00
Deputy Tax Commissioners, 31 at $2,400	74,400 00
Deputy Tax Commissioner	1,650 00
Surveyor	7,000 00
Chief Deputy, Real Estate	7,000 00
Chief Deputy, Personal Estate	4,000 00
Chief Clerk	3,000 00
Chief Clerks, 3 at $2,550	7,650 00
Clerks, 6 at $1,800	10,800 00
Clerks, 8 at $1,650	13,200 00
Clerks, 17 at $1,500	25,500 00
Clerks, 14 at $1,350	18,900 00
Clerks, 25 at $1,200	30,000 00
Clerks, 23 at $1,050	24,150 00

Clerks, 15 at $900	13,500 00
Clerks, 28 at $750	21,000 00
Clerks, 4 at $600	2,400 00
Clerks, 3 at $540	1,620 00
Searchers, 2 at $1,500	3,000 00
Searchers, 2 at $1,350	2,700 00
Searchers, 3 at $1,200	3,600 00
Confidential Stenographers, 2 at $1,650	3,300 00
Confidential Stenographer	1,500 00
Confidential Stenographers, 2 at $1,350	2,700 00
Confidential Stenographers, 2 at $1,200	2,400 00
Messenger	1,800 00
Messengers, 4 at $1,350	5,400 00
Book Typewriters, 5 at $1,050	5,250 00
Unassigned balance	100 00
	$581,120 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending, theapproval of the schedule, as revised, for the Department of Education for the year 1911, Bureau of Buildings, Corporate Stock Force, providing for the addition of several positions not included in the original schedule adopted by the Board:

Department of Education, City of New York, New York, May 15, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In accordance with a resolution adopted by the Board of Education on November 23, 1910, the undersigned respectfully request modifications in the salary schedule for the Bureau of Buildings, Corporate Stock Force, as follows:

Strike out:

Architectural Draftsmen, 4 at, per week	$35 00
Architectural Draftsmen, 5 at, per week	32 50
Structural Steel Draftsmen, 6 at, per week	35 00
Expert Blue Printer, 1 at, per day	5 00

—and insert

Architectural Draftsmen, 2 at, per week	50 00
Architectural Draftsmen, 7 at, per week	40 00
Architectural Draftsmen, 5 at, per week	35 00
Architectural Draftsmen, 4 at, per week	32 50
Mechanical Draftsmen, 5 at, per week	30 00
Junior Draftsmen, 11 at, per week	17 50
Structural Steel Draftsmen, 1 at, per week	45 00
Structural Steel Draftsmen, 8 at, per week	35 00
Assistant Foreman Carpenter, 1 at, per week	30 00
Mason, 1 at, per week	33 60
Painter, 1 at, per week	33 00
Special Laborer, 1 at, per week	33 00
Expert Blue Printer, 1 at, per week	30 00

A copy of the schedule, as modified, is enclosed. Respectfully yours,

A. E. PALMER, Secretary, Board of Education; HENRY R. M. COOK, Auditor, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Board of Education on May 15, 1911, for modification of the salary schedule for the corporate stock force of the Bureau of buildings, I report as follows:

The request was approved in part by the Board of Estimate and Apportionment on June 8, 1911. The remaining items are for the addition of various classes of employees which were not included in the original schedule when it was approved by this Board on April 27, 1911, for the reason that the necessary grade had not been established, pursuant to the provisions of section 56 of the Greater New York Charter.

On June 20, 1911, additional grades were established as follows:

Title.	Rate.	Number of Incumbents.
Architectural Draftsman, per week	$50 00	2
Architectural Draftsman, per week	40 00	6
Mechanical Draftsman, per week	30 00	5
Structural Steel Draftsman, per week	45 00	1
Assistant Foreman Carpenter	5 00	1
Mason, per day	5 60	1

The addition of these positions to the schedule is necessary for the payment of the incumbents. The change involves, it is stated, no increase in compensation nor in the number of employees.

I recommend, therefore, that the above-mentioned positions be added to the schedule by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Education for the year 1911, as follows:

Department of Education.

Bureau of Buildings, Corporate Stock Force—

Architectural Draftsman, 1 at, per annum	$4,500 00
Architectural Draftsman, 1 at, per annum	3,000 00
Assistant Chief Heating and Ventilating Division, 1 at, per annum	3,000 00
Clerk, 1 at, per annum	540 00
Clerks, 5 at, per annum	300 00
Cleaner, 1 at, per annum	480 00
Engineer, 1 at, per week	50 00
General Inspectors, 7 at, per week	45 00
Inspector Iron and Steel Construction, 1 at, per week	45 00
General Inspector of Repairs, 1 at, per week	45 00
Inspectors of Masonry and Carpentry, 11 at, per week	36 00
Inspectors of Masonry and Carpentry, 7 at, per week	33 00
Inspector of Buildings, 1 at, per week	36 00
Architectural Draftsmen, 5 at, per week	45 00
Architectural Draftsman, 1 at, per week	37 50
Architectural Draftsmen, 4 at, per week	35 00
Architectural Draftsmen, 5 at, per week	32 50
Architectural Draftsmen, 19 at, per week	30 00
Architectural Draftsmen, 3 at, per week	25 00
Architectural Draftsmen, 2 at, per week	22 50
Mechanical Draftsman, 1 at, per week	37 50
Mechanical Draftsmen, 2 at, per week	25 00
Mechanical Draftsman, 1 at, per week	22 50
Draftsman's Helper, 1 at, per week	17 50
Structural Steel Draftsmen, 6 at, per week	35 00
Laborer, 1 at, per week	15 00
Expert Blue Printer, 1 at, per day	5 00
Junior Draftsmen, 11 at, per week	17 50
Architectural Draftsmen, 2 at, per week	50 00
Architectural Draftsmen, 6 at, per week	40 00
Mechanical Draftsmen, 5 at, per week	30 00
Structural Steel Draftsman, 1 at, per week	45 00
Assistant Foreman Carpenter, 1 at, per day	5 00
Mason, 1 at, per day	5 60

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($24,000) for setting and resetting curbstones, paving, repairing and otherwise improving the Transverse Road No. 2, crossing Central Park, from 79th st. on the east to 81st st. on the west, under jurisdiction of said Department:

Department of Parks, The City of New York, Arsenal Central Park, June 16, 1911.
Hon. William A. Prendergast, *Comptroller,* City of New York:

Sir—In conformity with the requirements of a resolution of the Board of Estimate and Apportionment of January 5 last, I beg to forward herewith for the approval of said Board plans and specifications for paving and otherwise improving the Transverse Road No. 2, crossing Central Park from 79th st. on the east to 81st st. on the west, Manhattan.

This improvement, which is estimated to cost $24,000, will be chargeable against the fund provided by corporate stock designated as C-DP-90.

Respectfully, CHAS. B. STOVER,
Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 16, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested the approval of plans, specifications and estimated cost of $24,000 for paving and otherwise improving the transverse road crossing Central Park, from 79th street on the east to 81st street on the west, Borough of Manhattan.

In the 1910 Corporate Stock Budget an authorization of $25,000 was made to cover the cost of repaving this road. The fund entitled "C-DP-90, repaving 79th street transverse road across Central Park," is practically intact.

The 79th street transverse road is paved with trap blocks. The pavement has been in use many years and is in bad condition. It is so greatly depressed in the middle that the sewer manhole heads in some places project as much as six inches, thereby forming obstructions dangerous to traffic. The conditions makes a new pavement necessary.

The pavement proposed to lay is similar to some that have been laid with very satisfactory results in the Borough of The Bronx. It is to have a base of broken stone four inches in thickness, thoroughly compacted with a ten-ton road roller. On the base is to be laid a wearing surface of "asphaltic mixture" containing bituminous ingredients mixed with sand or gravel. The surface mixture is to be spread to such a depth that when thoroughly compacted by rolling it will have a thickness of not less than two inches over the entire area of the roadway.

The contract also provides for new sidewalks and the resetting and renewal of curbstones, etc.

A guaranty bond of 20 per cent. of the moneys accruing to the contractor for the completed roadway pavement for a period of five years is provided for in the contract. It is also provided that 5 per cent. of the amount in cash shall be retained for a term of five years as a further guarantee that the pavement shall be kept in good order for that period.

The estimate of cost is reasonable and the specifications as submitted are satisfactory.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves of the plans and specifications as submitted and the estimate of cost, twenty-four thousand dollars ($24,000), for setting and resetting curbstones, paving with asphaltic mixture the roadway and with rock asphalt the sidewalks, repairing the drainage and otherwise improving the transverse road, number two (2), crossing Central Park, from 79th street on the east to 81st street on the west, in the Borough of Manhattan, City of New York, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($3,200) for an extension of the Fire Department fire alarm telegraph circuits to permit the establishment of fire alarm boxes at 84th 86th and 88th streets and East End avenue, Manhattan:

Fire Department of The City of New York, Office of the Commissioner, June 28, 1911.

Hon. Wm. A. Prendergast, *Comptroller:*

Sir—Forwarded herewith for the approval of the Board of Estimate and Apportionment are specifications and plans for an extension of the underground systems of the Fire Department fire alarm telegraph circuits. This work is part of a new system and is to be provided under C-FD-3B, "For purpose of providing means for the installation of a new fire alarm system in the Borough of Manhattan."

The estimated cost of this improvement is $3,200.

The completion of this work will permit the establishment of three fire alarm boxes as called for by resolution adopted by the Board of Aldermen at meeting June 13, 1911, in the matter of placing fire alarm boxes at 84th, 86th and 88th streets and East End avenue. Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Fire Commissioner requested the approval of plans, specifications and estimated cost of $3,200 for an extension of the Fire Department fire alarm telegraph circuits, to permit the establishment of three fire alarm boxes at East 84th, East 86th and East 88th streets and East End avenue, Borough of Manhattan.

At a meeting of the Board of Aldermen on June 13, 1911, the following resolution was adopted:

"Resolved, That fire alarm or call boxes be placed at once at 84th, 86th and 88th streets and East End avenue, respectively, and it be so recommended to the Fire Commissioner."

The plans and specifications call for the installation of three service boxes two feet below the pavement on East End avenue, at 84th, 86th and 88th streets, respectively, to be connected by two lines of three-inch pipe with the present service box at East End avenue and 82d street. They also provide for installing and making pipe connections to fire alarm box posts. The posts and service box covers are to be furnished by the Fire Department.

The plans and specifications are similar to others recently approved by this Board.

The work is designed to become part of the new fire alarm telegraph system of Manhattan, and is to be charged to the Corporate Stock Fund entitled "C-FD-No. 3B, for purpose of providing means for the installation of a new fire alarm system in the Borough of Manhattan." There is an unencumbered balance in the account for the purpose.

I recommend the approval of the plans, specifications and estimate of cost by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the plans, specifications and estimate of cost, three thousand two hundred dollars ($3,200), for an extension of the Fire Department fire alarm telegraph circuits, to permit the establishment of fire alarm boxes at 84th, 86th and 88th streets and East End avenue, Borough of Manhattan.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of $15,053.61 special revenue bonds, to be used by the President of the Borough of Brooklyn, for the purpose of paying salaries of employees and for equipment and maintenance of Municipal Bath, at Coney Island, together with a report of the Comptroller recommending approval of and concurrence in said resolution, and a schedule for said fund; also a report of the Committee on Salaries and Grades, recommending the establishment in the office of the President of the Borough of Brooklyn of the grade of position of Life Saver, at $3 per diem for four incumbents, to be employed at the Municipal Bath at Coney Island:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of fifteen thousand and fifty-three dollars and sixty-one cents ($15,053.61), the proceeds whereof to be used by the President of the Borough of Brooklyn for the purpose of paying salaries of employees on municipal bath at Coney Island.

Adopted by the Board of Aldermen June 20, 1911; three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 3, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting $15,053.61 in special revenue bonds, to be expended by the President of the Borough of Brooklyn for the purpose of paying the salaries of employees in the Municipal Bath at Coney Island. In connection therewith we report as follows:

The request involves provision for employees, on a per annum basis, as follows:

First Floor—Office:			
Female Cashiers	4 at	$750	$3,000 00
Female Key Clerks	2 at	750	1,500 00
Male Key Clerks	4	900	3,600 00
Room for Valuables:			
Female Property Clerks	4 at	750	3,000 00
Male Property Clerks	4 at	900	3,600 00
In Charge of Entrances, Aisles and Exits:			
Female Attendants	7 at	750	5,250 00
Male Attendants	16 at	900	14,400 00
Second Floor:			
Female Attendants	11 at	750	8,250 00
Third Floor—Room for Valuables:			
Male Property Clerks	6 at	900	5,400 00
For Aisles and Exits:			
Male Attendants	11 at	900	9,900 00
Watchmen	2 at	900	1,800 00
Housesmith			1,200 00
Life Savers (4 at $2.50 a day)			3,650 00
			$64,550 00

It is stated that the bath will be open about two months, requiring approximately $11,000 for salaries and wages.

The President of the Borough of Brooklyn states that he requested funds for both salaries and maintenance, and that the $15,053.61 is to cover the following estimate:

Salaries	$11,058 33
Equipping two hospital rooms with cots, furniture, etc., at $100 each	200 00
Two surf boats, at $125 each	250 00
Furnishing and installing stakes and life lines	975 00
Telephone for six months	30 00
10,000 rubber key rings	400 00
Janitors' supplies	250 00
Sidewalk between building line and front of bath	630 00
Proposed change in drainage, etc	560 28
Miscellaneous—for possible contingencies	1,000 00
	$15,353 61

I recommend therefore, the adoption of the attached resolution approving of the amount requested for the compensation of employees aand general maintenance, and approving a schedule for the fund. Respectfully,

WM. A. PRENDERGAST, Comptroller.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting $15,053.61 in special revenue bonds, to be expended by the President of the Borough of Brooklyn for the purpose of paying the salaries of employees in the Municipal Bath at Coney Island. In connection therewith we report as follows:

The request involves provision for employees, on a per annum basis, as follows:

First Floor—Office:		
Female Cashiers	4 at $750	$3,000 00
Female Key Clerks	2 at 750	1,500 00
Male Key Clerks	4 at 900	3,600 00
Room for Valuables:		
Female Property Clerks	4 at 750	3,000 00
Male Property Clerks	4 at 900	3,600 00
In Charge of Entrances, Aisles and Exits:		
Female Attendants	7 at 750	5,250 00
Male Attendants	16 at 900	14,400 00
Second Floor:		
Female Attendants	11 at 750	8,250 00
Third Floor—Room for Valuables:		
Male Property Clerks	6 at 900	5,400 00
For Aisles and Exits:		
Male Attendants	11 at 900	9,900 00
Watchmen	2 at 900	1,800 00
Housesmith		1,200 00
Life Savers (4 at $2.50 a day)		3,650 00
		$64,550 00

It is planned to open the bath-house about July 15, for a period of two months. The Borough President has found that it will not be necessary to establish the various grades of positions included in the request of the Acting Borough President. However, it will be necessary to establish the position of Life Saver. This position was included in the Acting Borough President's request, at $2.50 per day. Since that request was made it has been ascertained that it will not be possible to obtain the services of reliable and efficient Life Savers at that rate. It is requested that the grade of Life Saver at $3 per day be established.

We recommend the adoption of the attached resolution recommending the establishment of the position of Life Saver at $3 per day for four incumbents.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the President of the Borough of Brooklyn, of the position, in addition to those heretofore established, as follows:

Title.	Rate Per Diem.	Number of Incumbents.
Life Saver	$3 00	4

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds in the sum of fifteen thousand and fifty-three dollars and sixty-one cents ($15,053.61), the proceeds whereof to be used by the President of the Borough of Brooklyn for the purposes of paying salaries of employees on Municipal Bath at Coney Island be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, for the purpose of providing for the compensation of employees and the equipment and maintenance of the Municipal Bath, Coney Island, the amount to be apportioned to give ten thousand seven hundred and fifty-eight dollars and thirty-three cents ($10,758.33) for salaries and four thousand two hundred and ninety-five dollars and twenty-eight cents ($4,295.28) for equipment and maintenance, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fifteen thousand and fifty-three dollars and sixty-one cents ($15,053.61), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules of salaries paid from other than Budget funds in the office of the President of the Borough of Brooklyn for the year 1911, as follows:

President of the Borough of Brooklyn.

Bureau of Public Buildings and Offices, Maintenance, Coney Island Bath—Salaries, Special Revenue Bond Force:

Female Cashiers	4 at	$750 00
Female Key Clerks	2 at	750 00
Male Key Clerks	4 at	900 00
Female Property Clerks	4 at	750 00
Male Property Clerks	4 at	900 00
Female Attendants	7 at	750 00
Male Attendants	16 at	900 00
Female Attendants	11 at	750 00
Male Property Clerks	6 at	900 00
Male Attendants	11 at	900 00
Watchmen	2 at	900 00
Housesmith	1 at	1,200 00
Life Savers (90 days) a day	4 at	3 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The President of the Borough of Brooklyn presented the following rules governing the operation of the municipal bath at Coney Island:

Municipal Bath Coney Island—Rules for Bathers.

The hours of admittance will be from 8 a. m. to 6 p. m. All bathers shall be out of the water at 7 p. m., and the building will be closed at 7.30 p. m.

A charge of ten (10) cents will be made for the use of room or locker (rooms for women only and lockers for men). An additional ten (10) cents will be charged as a deposit on keys, which will be refunded to the bather if the key is returned the same day.

Regulation suits must be worn by the bathers, excepting that boys under ten (10) years of age may use bathing trunks. Flesh colored trunks and suits prohibited.

Smoking, sleeping or protracted lounging; disorderly conduct, boisterous or profane language prohibited. The eating of lunch in rooms is also prohibited.

Accommodation is provided for the checking of valuables, and The City of New York cannot be held liable for the loss of the property of bathers.

Bathers taking away keys or other property from this bath house are liable to arrest.

Ball playing or other games that interfere with the comfort of the bathers on the beach prohibited.

Bathers are ordered not to strew the beach with papers or other litter, but to place them in the boxes provided for the purpose.

All complaints as to lack of proper attention or courtesy upon the part of any employee should be made known to the manager at once, or in writing to the Superintendent of Public Buildings and Offices, Room 29, Municipal Building, Brooklyn.

HOWARD L. WOODY, Superintendent of Public Buildings and Offices.

Which were approved by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment in the office of the President of the Borough of The Bronx of the position of Foreman of Automobile Enginemen at $1,350 per annum for one incumbent:

(On March 16, 1911, the request of the President of the Borough of The Bronx for the establishment of the above position was referred to said committee.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 8, 1911, the President of the Borough of The Bronx requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the position of Foreman of Automobile Enginemen at $1,350 per annum for one incumbent. In connection therewith we report as follows:

The position is proposed for William H. McCormick, Automobile Engineman for the President at $1,200 per annum. McCormick was appointed on July 20, 1908, as an Automobile Engineman at $4 a day. It is stated that he worked 365 days in the year, giving a per annum total of $1,460, until January 1, 1911, when he was placed at the present rate. The President states the following:

"McCormick is now performing the duties of Foreman. It is necessary to have a Foreman who is a thorough mechanic and can repair cars, as well as direct their repair. He also keeps the stock of oil, cotton-waste, etc., and doles them out as needed upon requisition. He also keeps the cost data of maintenance of the machines in this Department. For this extra work I think it would be very advisable to pay him an extra salary of $150, or $1,350 in all."

It is stated that the $150 for the increase will be available without additional appropriation.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the President of the Borough of The Bronx of the position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Foreman of Automobile Enginemen	$1,350 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of The Bronx requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment in the office of said Borough President of the position of Foreman of Stable and Yards at $2,100 per annum for one incumbent, Charles A. Soteldo.

(On June 8, 1911, the request of the President of The Bronx for the establishment of the above position was referred to the Comptroller.)

City of New York, President of the Borough of The Bronx, 3d avenue and 177th street, June 7, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—Request is hereby respectfully made that the grade of Foreman of Stable and Yards, Bureau of Sewers, at $2,100, be established, for the office of the President of the Borough of The Bronx.

The necessity for having a single head over the stable and yards of the Sewer Bureau, on whom the responsibility of management can be placed, is of extreme importance.

This request is made in order to provide, as the proposed title implies, for a foreman in charge of the stable and yards of the Bureau of Sewers, and it is intended to fill said position, when established, by the appointment of Mr. Charles A. Soteldo, who has for over a year occupied the position of Foreman of Hostlers, in the stable of said Bureau, having been assigned to the work under the general plan of reorganization instituted at the time. His work, so far, has been of the very best, to the extent that the stable building and its appurtenances inside and outside have been so much improved under his management as to suggest the advisability of placing him in charge of the entire yard, viz., the force of employees, tools, implements, etc., forage and supplies, as well as the stable, vehicles, horses, etc.

Mr. Soteldo is now receiving $1,800 per annum as Foreman of Hostlers, and the change involved would represent an increase of but $300, though the benefit derived by the City in the proposed change would be of decided value. Respectfully,

CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 7, 1911, the President of the Borough of The Bronx requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the position of Foreman of Stable and Yards at $2,100 per annum, for one incumbent. In connection therewith we report as follows:

The request is to provide for a Foreman in Charge of the Yards and Stable of the Bureau of Sewers. The President states the following:

"It is intended to fill the position by the appointment of Mr. Charles S. Soteldo, who for over a year has occupied the position of Foreman of Hostlers in the stable of the Bureau, having been assigned to the work under the general plan of reorganization instituted at the time. His work so far has been of the very best, to the extent that the stable building and its appurtenances, inside and outside, have been so much improved as to suggest the advisability of placing him in charge of the entire yard, as follows: The force of employees, tools, implements, forage and supplies, stable, vehicles, horses, etc.

"Mr. Soteldo is now receiving $1,800 per annum as Foreman of Hostlers. The change involves only an increase of $300 per annum, while the benefit to be derived by the City will be of decided value."

The President further states that Mr. Soteldo has been accustomed to the training and care of horses all his life, and was for several years the purchasing agent in the Fire Department of The City of New York, where his duties extended to the purchase of all forage, requiring a knowledge as to the different qualities of hay, oats, etc., and the purchase of horses. In addition to this experience, it was his duty to pass upon all stable supplies, repairs to vehicles, etc.

We recommend approval of the establishment of the position for Mr. Soteldo by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the President of the Borough of The Bronx of the position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Foreman of Stable and Yards (for Charles A. Soteldo)..	$2,100 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of The Bronx relative to, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of said Borough President of the following grades of positions:

	Per Annum.	Incumbents.
Commissioner of Public Works	$5,500 00	1
Assistant Commissioner of Public Works	4,500 00	1

(On September 30, 1910, the request of the President of The Bronx for the establishment of the above grades was referred to said committee.)

The City of New York, Office of the President of the Borough of The Bronx, Municipal Building, Crotona Park, September 22, 1910.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—Request is hereby respectfully made for the establishment of the following-named grades in the office of the President of the Borough of The Bronx, viz.:

Commissioner of Public Works, at per annum	$5,500 00
Assistant Commissioner of Public Works, at per annum	4,500 00
General Bookkeeper, at per annum	4,000 00

Respectfully, CYRUS C. MILLER, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On September 22, 1910, the President of the Borough of The Bronx requested the establishment of the grades of positions, as follows:

Commissioner of Public Works	$5,500 per annum
Assistant Commissioner of Public Works	4,500 per annum
General Bookkeeper	4,000 per annum

This request was referred to the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen.

The President of the Borough of The Bronx followed up his request with a further communication dated September 24, 1910, addressed to the members of the Select Committee, giving arguments to support his request. In urging a higher salary for the Commissioner and Assistant Commissioner of Public Works the President said:

"The duties devolving upon the Commissioner of Public Works and the Assistant Commissioner in the administration of the business of this Department, as now constituted, I am well informed are of much greater importance and responsibility than prevailed in said offices during the previous administration, the entire direction of all public works of construction, including regulating, grading, paving, sewers, and maintenance of highways and sewers, as well as all the work of an executive nature incidental thereto, now come under the supervision of these officers, which previously had been performed by the respective Bureau heads of the several divisions of this Department prior to its reorganization.

"It seems, therefore, but just that a higher rate of compensation should be fixed for these officers, their duties requiring extraordinary skill. Further, in comparison with the rates established in the Boroughs of Manhattan and Brooklyn, viz., $7,200 and $6,000 respectively, for Commissioner of Public Works, and $6,000 in Manhattan and $5,000 in Brooklyn for Assistant Commissioner seem to justify the rates proposed for similar duties in The Bronx."

The proposed increases of the Commissioner and Assistant Commissioner of Public Works seems to your Committee to be well justified by the facts stated in the opinion of the Borough President quoted above. The Commissioner of Public Works, Borough of Manhattan, receives $7,200 per annum, or $1,700 more than it is proposed to pay the Commissioner in the Borough of The Bronx. The Assistant Commissioner in Manhattan receives $6,000 per annum, or $1,500 more than it is proposed to pay the Assistant Commissioner in The Bronx. In Brooklyn, the Commissioner and Assistant Commissioner receive respectively $500 per annum more than it is proposed to pay those officials in The Bronx. The duties and responsibilities of the latter are fully as great as those occupying similar positions in the other Boroughs mentioned. Both are men of marked ability who have brought the work of the Bronx President's office to a high standard of efficiency and economy.

The request for the grade of $4,000 per annum for the General Bookkeeper has already been granted.

We recommend that the remaining portions of the President's request of September 22, 1910, be granted by the adoption of the attached resolution.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of the President of the Borough of The Bronx, of the grade of positions in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Commissioner of Public Works	$5,500 00	1
Assistant Commissioner of Public Works	4,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, returning for reference to the Committee on Standardization of Salaries and Grades the communication from the President of the Borough of Richmond relative to the inequality in the rate of wages paid to the employees in the Bureau of Street Cleaning in said Borough, as compared with those holding similar titles and performing similar work in the other Boroughs.

Which was referred to the Committee on Standardization of Salaries and Grades.

(On May 4, 1911, the above communication was referred to said Committee.)

The Secretary presented the following communication from the Supervisor of the City Record requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the Board of City Record of the following grades of positions:

	Per Annum.	Incumbents.
Storekeeper	$1,950 00	1
Clerk	750 00	1

(On June 15, 1911, the request of the Supervisor of the City Record for the establishment of the above grades was referred to said Committee.)

The City of New York, Board of City Record, Office of the Supervisor, 13-21 Park Row, June 13, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment,* 277 Broadway, New York City:

Dear Sir—The Board of Estimate and Apportionment is respectfully requested to recommend to the Board of Aldermen, in accordance with the provisions of section 56, Greater New York Charter, the establishment of the following grades of positions in the office of the Supervisor of the City Record in addition to those already existing therein:

	Incumbent.	Salary.
Storekeeper	1	$1,950 00
Clerk	1	750 00

Respectfully submitted,

DAVID FERGUSON, Supervisor of the City Record.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1911, the Supervisor of the City Record requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grades of positions of Storekeeper at $1,950 and Clerk at $750 per annum, for one incumbent each. In connection therewith we report as follows:

The grade of Storekeeper at $1,950 is proposed to increase Washington H. Hettler, the present incumbent, $150 per annum. Mr. Hettler was appointed in 1885, and has been at the rate of $1,800 for seven years. The Supervisor states that his work has increased greatly, and that he highly merits the promotion.

The grade of Clerk at $750 per annum is established for one incumbent. The additional grade is for the appointment of another Clerk from the Civil Service list. The Supervisor states that the two Clerks are needed for the new system in the office.

We recommend the adoption of the attached resolution recommending to the Board of Aldermen the establishment of the grades requested. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Board of City Record of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Storekeeper	$1,950 00	1
Clerk	750 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Fire Commissioner, requesting the establishment of the position of Chief Medical Officer with salary at the rate of $6,000 per annum, in accordancce with chapter 392 of the Laws of 1911, together with a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, to whom this application was referred June 20, 1911, recommending the establishment in the Fire Department of the position of Chief Medical Officer with salary at the rate of $3,600 per annum for one incumbent:

Fire Department, of The City of New York, office of the Commissioner, June 22, 1911.

Hon. William J. Gaynor, *Mayor, and Chairman Board of Estimate and Apportionment:*

Sir—The Legislature at its present session, has amended section 740, of the Greater New York Charter, by providing that one of the Medical Officers of the Department (who ranks as Chief of Battalion at $3,300 per annum), shall be appointed Chief Medical Officer, with salary of not more than $6,000 per annum.

I have, therefore, the honor to request, that the position of Chief Medical Officer be established in this Department, with compensation at the rate of $6,000 per annum, for one incumbent. Respectfully, JOS. JOHNSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 22, 1911, the Commissioner of the Fire Department requested the establishment in his Department of the position of Chief Medical Officer, at $6,000 per annum, for one incumbent. In connection therewith we report as follows:

Chapter 392, Laws of 1911, amending section 740 of the Greater New York Charter, which became a law on June 21, 1911, provides as follows:

"Section 740. The rank and salaries of officers of the Fire Department shall be as follows: * * * Battalion Chiefs, whose annual salary shall be not more than three thousand three hundred dollars; Medical Officers, whose rank and salary shall be the same as that of Battalion Chiefs, one of whom shall be appointed Chief Medical Officer, whose annual salary shall be not more than six thousand dollars. * * *"

There are eleven Medical Officers in the Department, at the rate of $3,300 per annum, and distributed as follows: Manhattan, 4; The Bronx, 1; Richmond, 1; Brooklyn, 3; Queens, 2. To comply with the provisions of the law, the Commissioner proposed to appoint the Chief Medical Officer, to have general supervision of the medical work of the Department, and requests the rate of $6,000 per annum as the maximum amount fixed by the law. It seems that $3,600 would be a reasonable compensation for the position.

We recommend that the request be approved for one incumbent, at the $3,600 rate, by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Fire Department of the position in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Chief Medical Officer	$3,600 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department relative to, and report of the Select Commmittee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment in the said Department of the following grades of positions:

	Per Annum.	Incumbents.
Cable Tester	$1,200 00	1
Cable Splicer	1,200 00	2

(On May 4, 1911, the request of the Fire Commissioner for the establishment of the above grades and for the grades of Assistant Electrical Engineer at $3,000, and Draftsman at $1,200, was referred to said Committee.)

Headquarters Fire Department, City of New York, office of the Fire Commissioner, April 27, 1911.

Hon. William J. Gaynor, *Mayor, and Chairman Board of Estimate and Apportionment,* City Hall, New York City:

Sir—Your honorable Board is respectfully requested to establish the following grades of positions in the Fire Department:

Title.	Per Annum.	Incumbents.
Assistant Electrical Engineer	$3,000 00	1
Draftsmen	1,200 00	3
Cable Tester	1,200 00	1
Cable Splicers	1,200 00	2

The following grades of positions were established by resolution of January 24th, 1911:

Title.	Per Annum.	Incumbents.
Cable Testers	$1,200 00	2
Assistant Electrical Engineers	1,800 00	2

The grade of position of Stenographer and Typewriter at $1,950 per annum already exists unlimited.

These statements will make clear the request to follow for the modification of our corporate stock schedule.

It is,, therefore, requested that the corporate stock schedule of the Fire Department be modified by adding the following:

Title.	Per Annum.	Incumbents.
Assistant Electrical Engineer	$3,000 00	1
Assistant Electrical Engineers	1,800 00	2
Cable Testers	1,200 00	3
Cable Splicers	1,200 00	2
Stenographer and Typewriter	1,050 00	1
Draftsmen	1,200 00	3

The Assistant Electrical Engineer at $3,000, three Draftsmen at $1,200, one Cable Tester at $1,200, two Cable Splicers at $1,200 and one Stenoggrapher and Typewriter at $1,050 are to be employed in the work of underground construction of the Fire Alarm Telegraph in the Borough of Brooklyn, for which $140,000 has been appropriated in C-FD-22.

Before detailed specifications can be prepared for executing this work, it is necessary to prepare plans of cable distribution. Employees above-named are absolutely necessary before this money can be expended for its designated purpose.

The two Cable Testers at $1,200, and two Assistant Electrical Engineers at $1,800, are to be employed in connection with the establishment of the new Fire Alarm System in the Borough of Manhattan, for which $200,000 has been appropriated in C-FD-3B. Respectfully, R. WALDO, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 27, 1911, the Fire Commissioner requested the establishment in his Department, pursuant to the provisions of section 56 of the Greater New York Charter, of the folllowing grades of positions:

Title.	Rate Per Annum.	Number of Incumbents.
Assistant Electrical Engineer	$3,000 00	1
Draftsman	1,200 00	3
Cable Tester	1,200 00	1
Cable Splicers	1,200 00	2

The establishment is proposed for incumbents for the construction of underground electrical conductor in the Borough of Brooklyn. Corporate stock to the amount of $150,000 has been authorized for the work. The Commissioner states that the Cable Tester and the Cable Splicers are urgently needed for work on cable distribution, etc., in connection with the installation of the underground system. It appears from examination that there is no need at this time for the grades of Assistant Electrical Engineer and Draftsman.

We recommend that establishment for the Cable Tester and the Cable Splicers, at the requested rates, be approved by the adoption of the attached resolution.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Fire Department of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Cable Tester	$1,200 00	1
Cable Splicer	1,200 00	2

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Select Committee as above to the Fire Commissioner.

The Secretary presented a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending that the petition of the Engineers of Steamers and the Firemen in the Fire Department, for increases in salaries be referred to the Committee on Standardization of Salaries and Grades, which was referred to the Committee on Standardization of Salaries and Grades, consisting of the Comptroller, the President of the Borough of Manhattan and the President of the Borough of Brooklyn.

(On June 22, 1911, the above petition was referred to said Select Committee.)

The Secretary presented the following communications from the Department of Correction relative to, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment in said Department of the following grades of positions:

	Per Annum.	Incumbents.
Mate	$900 00	4
Cook	720 00	8

(On March 16 and 30, 1911, the request of the Commissioner of Correction for the establishment of the above grades and the grades of Deputy Commissioner at $5,000, Secretary of the Department at $3,500 and General Bookkeeper and Auditor at $4,000, was referred to said committee.)

Department of Correction of The City of New York, 26th Street and East River, March 7, 1911.

To the Honorable Board of Estimate and Apportionment:

Sirs—We, the undersigned mates, employed in the Correction Department, respectfully request and petition for an interview in regard to an increase in our salary, as we find it very difficult to support our families and give our children the proper education which they should require to fit them through the various walks in life.

Hoping this meets with the approval of your honorable body, we remain,

Yours respectfully,

MICHAEL J. BURKE, DANIEL J. McHENRY, MAURICE P. SULLIVAN, JAMES H. LANTRY,

March 7, 1911.

Mr. Michael J. Burke, *Steamboat Bureau, Department of Correction:*

Dear Sir—The letters signed by the Mates of this Department, stating that an increase in salary was desired, has been received. In answer, I would state that the proposed increase meets with my approval. I would suggest that the question be placed before the Board of Estimate and Apportionment.

Respectfully, PATRICK A. WHITNEY, Commissioner.

Department of Correction of The City of New York, 148 East 20th Street, New York, March 22, 1911.

Joseph Haag, Esq., *Secretary, Board of Estimate and Apportionment,* New York City:

Dear Sir—I would respectfully request the Honorable the Board of Estimate and Apportionment to establish the following grades of positions in the Department of Correction, in addition to those already existing therein:

	Per Annum.	Incumbent.
Deputy Commissioner, at	$5,000	1

The position of Deputy Commissioner is a very responsible one, and the salary paid to the present incumbent does not compare with salaries of similar positions in other departments.

	Per Annum.	Incumbent.
Secretary of the Department	$3,500	1

The incumbent of this position is a good and faithful employee, and it is intended to equalize his salary with those paid in other similar positions.

	Per Annum.	Incumbent.
General Bookkeeper and Auditor	$4,000	1

This position is a very important one; the present incumbent is very competent, and is justly entitled to the increase. The amount asked for is very modest, indeed, and is well warranted by the services rendered.

The work of the Department of Correction is much greater than it was when the old grades were established, and there is now a tendency to still further increase the functions and responsibilities of the Department. I feel, therefore, that these grades should be established for these very deserving employees.

	Per Annum.	Incumbent.
Mates, at	$900	4

The increase from $800 to $900 per annum in salaries of Mates, is to equalize the pay of these employees with that paid to Mates in the Departments of Docks and Ferries, and of Public Charities.

	Per Annum.	Incumbent.
Cooks	$720 00	8

The establishment of the grade of Cook at $720 per annum is essential, as the Department finds it very hard to secure good reliable cooks for lower salaries.

Respectfully submitted, PATRICK A. WHITNEY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 22, 1911, the Commissioner of Correction requested the establishment, pursuant to the provsions of section 56 of the Greater New York Charter of the following grades of positions in the Department of Correction:

Title.	Rate Per Annum.	Number of Incumbents.
Deputy Commissioner	$5,000 00	1
Secretary of the Department	3,500 00	1
General Bookkeeper and Auditor	4,000 00	1
Mate	900 00	4
Cook	720 00	8

In connection therewith we report as follows:

The grades for Deputy Commissioner and Secretary of the Department are proposed for salary increases which were requested in the departmental estimate for 1911. The increases were considered by the Budget Committee and were not recommended for approval. No additional reasons have been presented for the increases at this time. We recommend, therefore, that these items in the request be not approved.

The grade of General Bookkeeper and Auditor, at $4,000 per annum, was proposed for John P. Dreyer. Since the date of the request, Mr. Dreyer has died. We therefore recommend that the increased rate be not approved.

The establishment of the $900 grade for four Mates is to enable the Commissioner to equalize the compensation of the employees with the rates for Mates in the Department of Docks and Ferries and Public Charities.

The Commissioner states that the establishment of the grade of Cook, at $720, is necessary, for the reason that he finds it almost impossible to secure reliable Cooks at less than that rate. The Cooks in the Department of Charities receive less than $720, but are provided with board and washing. In the Department of Correction, the Cooks, with one exception, go to their homes at night. Each of the eight incumbents does all the cooking in one of the institutions, or on one of the Department boats. In the Department of Charities the Cooks have assistants.

We recommend the adoption of the attached resolution approving the request to the extent of the proposed grades for the Mates and Cooks. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Correction of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Mate	$900 00	4
Cook	720 00	8

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Select Committee, as above to the Commissioner of Correction.

The Secretary presented the following report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment of the grades of position of Attendance Officer in the Department of Education, at $900, $1,050, $1,350 and $1,500 per annum, for an unlimited number of incumbents:

(On March 30, 1911, a resolution of the Board of Education relative to the establishment of grades for Attendance Officers and approval of a schedule of salaries, was referred to said Committee.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 2, 1911, the Board of Estimate and Apportionment referred back to the Board of Education a request for the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grades of Senior Attendance Officer, at the rate of $720 per annum with the suggestion that it be modified to include all the other grades in the schedule which have not been established. On March 22, 1911, the Board of Education withdrew the request for the $720 grade and asked for establishment of grades at $1,350 and $1,500 per annum, and for approval of a schedule of salaries for Attendance Officers as follows:

First year	$900 00
Second year	1,050 00
Third year	1,200 00
Fourth year	1,200 00
Fifth year	1,200 00
Sixth year	1,200 00
Seventh year	1,350 00
Eighth year	1,350 00
Ninth year	1,350 00
Tenth and succeeding years	1,500 00

Of the five grades in the schedules, only that of $1,200 per annum has been established.

An additional grade of $750 per annum has been established and it is proposed to use it for Senior Attendance officers instead of $720 grade, the request for which has been withdrawn. Grades at $600, $900 and $1,050 were fixed in 1902 by the Board of Estimate and Apportionment, pursuant to the provisions of chapter 436 of the Laws of 1902. This establishment was for "Attendance Officers in Truant Schools," and the establishment now involved does not cover truant schools. The Attendance Officers are under the immediate direction of the City Superintendent of Schools, who assigns them by districts. It, therefore, becomes necessary to establish the grades in the schedule of $900 and $1,050 per annum.

It appears that there is no precedent for approval by your Board of the schedule as a whole. Salary increases at stated intervals are not provided for the City employees, and no reason is apparent at this time to justfy an exception in the case of Attendance Officers.

We recommend the establishment of the four grades of $900, $1,050, $1,350 and $1,500 per annum, at which rates incumbents are now being paid, be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Education of the grades of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Attendance Officer	$900 00	Unlimited
Attendance Officer	1,050 00	Unlimited
Attendance Officer	1,350 00	Unlimited
Attendance Officer	1,500 00	Unlimited

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Select Committee, as above to the Board of Education.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment in said Department of the grade of position of Mechanical Engineer, at $2,100 per annum for one incumbent:

(On June 1, 1911, the request of the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the establishment of the above grade was referred to said committee.)

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, May 26, 1911.

To the Honorable, the Board of Estimate and Apportionment, The City of New York:

Gentlemen—I have the honor to request the establishment by your honorable Board, of the following grade in this Department, Boroughs of Manhattan and Richmond:

Mechanical Engineer, per annum, $2,100.

This request is made in order that the remuneration provided for this position in this Department may correspond more adequately with that of the salary paid to employees in other departments doing similar work. Yours truly,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 26, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Mechanical Engineer, at $2,100 per annum, for one incumbent. In connection therewith we report as follows:

The grade is asked for to increase the compensation of Frank A. Koch, who has received no increase since his appointment as a Mechanical Engineer on July 2, 1898, at $1,500 per annum.

The rates paid for similar positions in other City departments are from $1,800 to $4,000 per annum. The Chief Engineer states that Mr. Koch is a valuable employee, and that he highly merits the increase.

We recommend the adoption of the attached resolution approving of the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved. That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Parks, Boroughs of Manhattan and Richmond, of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Mechanical Engineer	$2,100 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen recommending, the establishment in said Department of the grade of position of Supervisory Attendant, at $900 per annum, for one incumbent:

(On May 25, 1911, the request of the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the establishment of the above grade was referred to said committee.)

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, May 16, 1911.

To the Honorable, the Board of Estimate and Apportionment, The City of New York:

Gentlemen—I have the honor to request the establishment by your honorable Board, under section 56 of the Greater New York Charter, of the position of Supervisory Attendant for this Department, Boroughs of Manhattan and Richmond, at $900 per annum, one incumbent.

This request is made at the instigation and in accordance with the request of the Comptroller's office. Respectfully,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 16, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Supervisory Attendant, at $900 per annum, for one incumbent. In connection therewith we report as follows:

The request was made at the suggestion of the Comptroller for the following reasons:

On June 14, 1897, Miss Mary Kenny was appointed as a Cottage Attendant, at $75 per month, and still is on the payroll under the title. Miss Kenny is in charge of the Female Cottage Attendants in the Department, and is responsible for the condition of the comfort stations. Her work is of a supervisory nature, and for that reason her compensation for February and March, 1911, was withheld in the Department of Finance. Payment subsequently was made upon the agreement with the Commissioner that request would be made for the establishment of a proper title.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Parks, Boroughs of Manhattan and Richmond, of the grade of position in addition to those heretofore established, as follows

Title.	Rate Per Annum.	Number of Incumbents.
Supervisory Attendant	$900 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond, requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Department of the following grades of positions:

	Per Annum.	Incumbent.
Director of Menagerie	$1,200 00	1
Keeper of Menagerie	1,500 00	1

(On June 8, 1911, the request of the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the establishment of the above grades was referred to said Committee.)

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, June 5, 1911.

To the Honorable, the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In accordance with a communication of even date, addressed to your honorable Board, I have the honor to request the establishment of the following grades in the Department of Parks, Boroughs of Manhattan and Richmond:

Director of Menageries	$1,200 00 per annum
Keeper of Menagerie	1,500 00 per annum

Respectfully,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 5, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grades of positions of Director of Menagerie at $1,200 and Keeper of Menagerie at $1,500 per annum, for one incumbent each. In connection therewith, we report as follows:

The establishment is proposed to enable the Commissioner to reorganize the menagerie force in accordance with recommendations made by the Commissioner of Accounts.

The grade of Director of Menagerie, at $1,200, is for the present incumbent, who receives a compensation of $3,000 per annum, but who, by reason of ill health, is unable properly to fill the position, and is to be decreased to the $1,200 grade.

The grade of Keeper of Menagerie, at $1,500, is proposed for William Snyder, who was appointed in January, 1888, and for several years has been in charge of the force of keepers at a compensation of $1,200 per annum.

The Commissioner states that he proposes to effect the reorganization proposed by the Commissioner of Accounts without entailing any additional cost to the City.

We recommend the adoption of the attached resolution recommending to the Board of Aldermen the establishment of the grades requested. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Parks, Boroughs of Manhattan and Richmond, of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Director of Menagerie,	$1,200 00	1
Keeper of Menagerie	1,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Street Cleaning requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Department of the grade of position of Chief Bookkeeper at $3,500 per annum, for one incumbent:

(On June 15, 1911, the request of the Commissioner of Street Cleaning for the establishment of the above grades was referred to said Committee.)

Department of Street Cleaning of the City of New York, 13-21 Park Row, New York, May 31, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment:*

Sir—The Board of Estimate and Apportionment is respectfully requested to recommend to the Board of Aldermen, pursuant to the provisions of section 56 of the Greater New York Charter, the establishment of the grade of position of Chief Bookkeeper in the Department of Street Cleaning, in addition to those heretofore established, with salary at the rate of $3,500 per annum for one incumbent, and that the grade of Chief Bookkeeper at $3,000 per annum be abolished.

Respectfully, WM. H. EDWARDS, Commissioner of Street Cleaning.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 31, 1911, the Commissioner of Street Cleaning requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of Chief Bookkeeper at $3,500 per annum, for one incumbent. In connection therewith, we report as follows:

The grade is proposed to increase the compensation of Mr. Joseph S. McCann, the present incumbent at $3,000 per annum. Mr. McCann was appointed on June 20, 1890, and has received no increase in nine years. The Commissioner states that the business of the office has increased greatly and that the incumbent has many added responsibilities. The departmental estimate for the year 1911 included the $3,500 rate for the position. The Budget Committee recommended that it be not approved for the reason that the grade had not been established.

Mr. McCann prepares the yearly estimate for the Department and attends to all transfers and modifications during the year. He also is in charge of the bookkeeping and cost accounting in the Department.

It is stated that no additional appropriation will be required for the increase.

We recommend the adoption of the attached resolution approving of the establishment of the grade requested. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Street Cleaning of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Chief Bookkeeper	$3,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Street Cleaning requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Department of the grade of position of Automobile Engineman at $1,500 per aannum for one incumbent:

(On June 15, 1911, the request of the Commissioner of Street Cleaning for the establishment of the above grade was referred to said Committee.)

Department of Street Cleaning of The City of New York, 13-21 Park Row, New York, May 31, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Sir—The Board of Estimate and Apportionment is respectfully requested to recommend to the Board of Aldermen, pursuant to the provisions of section 56 of the Greater New York Charter, the establishment of the grade of position of Automobile Engineman in the Department of Street Cleaning, in aaddition to those heretofore established, with salary at the rate of $1,500 per annum, for one incumbent.

The Automobile Engineman is for the use of the Commissioner of Street Cleaning.

Respectfully, WM. H. EDWARDS, Commissioner of Street Cleaning.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 31, 1911, the Commissioner of Street Cleaning requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Automobile Engineman at $1,500 per annum, for one incumbent. In connection therewith we report as follows:

The grade is proposed to increase Robert C. Gibbons, the Automobile Engineman who operates the Commissioner's car, from $1,200 to $1,500 per annum. The Commissioner states that the incumbent, in addition to being a very competent driver, is required to work many hours overtime without pay, and that he is a thorough mechanic and saves the City considerable money by caring for and repairing cars in the department.

Automobile Enginemen are employed in the following City Departments at the rate of $1,500 per annum:

Department of Docks and Ferries, Department of Bridges, Fire Department, Department of Water Supply, President Borough of Manhattan, President Borough of Brooklyn.

The increase will entail no additional cost to the City, as the Commissioner states that the $300 will be provided by transfer within budget appropriations.

We recommend the adoption of the attached resolution recommending to the Board of Aldermen the establishment of the grade requested. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Street Cleaning of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Automobile Engineman	$1,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Health requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Department of grade of position of Stenographer and Typewriter at $1,200 per annum for one incumbent:

(On June 8, 1911, the request of the Department of Health for the establishment of above grade was referred to said Committee.)

Department of Health, City of New York, Office of the Secretary, New York, June 5, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 280 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held May 31, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment, in accordance with the provisions of section 56 of the Greater New York Charter, be and is hereby respectfully requested to recommend to the Board of Aldermen the establishment of the grade of the position of Stenographer and Typewriter in the Department of Health (in addition to those already existing therein), with salary at the rate of twelve hundred dollars ($1,200) per annum for one incumbent, detailed to the office of the Commissioner.

A true copy,, EUGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 31, 1911, the Board of Health requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Stenographer and Typewriter, at $1,200 per annum, for an additional incumbent. In connection therewith we report as follows:

The establishment is proposed to increase the compensation of Miss Mary H. Jillson, a Stenographer and Typewriter, from $1,050 to $1,200 per annum. Miss Jillson was appointed on November 27, 1904, at $600 per annum. On January 1, 1906, her salary was increased to $750; on July 1, 1906, to $900, and on December 15, 1909, to the present rate. Miss Jillson is in the office of the Commissioner. It is stated that no additional appropriation will be necessary for the increase.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Health of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Stenographer and Typewriter............................	$1,200 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Docks and Ferries requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Department of the grade of position of Chainman and Rodman, at $1,200 per annum, for 18 incumbents:

(On Febraury 2, 1911, the request of the Dock Commissioner for the establishment of above grade was referred to said Committee.)

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, January 23, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, and Chairman of the Board of Estimate and Apportionment:*

Sir—In the position of Chainman and Rodman in this Department, two grades have already been established, one at $900 per annum, and the other at $1,080 per annum. At the time of the establishment of these grades for the position the Engineering classification of the Municipal Civil Service Commission contained the positions of Leveler and Transitman at higher grades. Levelers received pay at the rate of $1,200 per annum, or $1,250 per annum, and Transitmen at the rate of $1,500 per annum, or $1,800 per annum. Since this classification of grades, the position of Leveler has been eliminated by the Municipal Civil Service Commission. Therefore there is no intermediate grade for the Engineering staff between Chainman and Rodman, at $1,080 per annum, and Transitman at $1,500 per annum.

The effect is that the Chainmen and Rodmen are frequently called upon to do work of a higher grade than that which is ordinarily implied by the title.

In view of the elimination of the title of Leveler, it is impossible to allow these men any higher salary without promotion to the position of Transitman, at $1,500.

I therefore respectfully request that a resolution be adopted recommending to the Board of Aldermen the establishment of the position of Chainman and Rodman for this Department with salary at the rate of $1,200 per annum.

Yours respectfully, CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On January 25, 1911, the Commissioner of Docks requested the establishment in the Department of Docks and Ferries, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Chainman and Rodman, at $1,200 per annum. In connection therewith, we report as follows:

The Commissioner states that on account of the position of Leveler having been eliminated by the Municipal Civil Service Commission, there is no intermediate grade, in the Bureau of Engineering, between Chainman and Rodman at $1,080 per annum, and Transitman at $1,500 per annum. For that reason, promotions cannot be made, unless to the position of Transitman, at $1,500 per annum.

The $1,200 grade is proposed for eighteen incumbents, as follows:

Baxter, Ralph H., Chainman and Rodman, appointed June 21, 1906, at $1,080.

Birmingham, John T., Chainman and Rodman, appointed Sounder September 16, 1898; made Chainman and Rodman June 28, 1901, at $1,080.

Crowley, Daniel A., Chainman and Rodman, appointed Marine Sounder May 3, 1905, at $18 per week; made Chainman and Rodman September 24, 1906, at $1,080.

Darby, James C., Chainman, appointed Chainman January 25, 1894; increased to $900 April 29, 1902; increased to $1,080 May 27, 1904.

Dikeman, James W., Chainman, appointed Chainman November 30, 1880, increased to $1,080 June 1, 1904.

Hayes, Mark T., Rodman, appointed Rodman November 10, 1905, at $1,080.

Lamber, John R., Rodman, appointed Rodman November 5, 1906, at $1,080.

Lynch, Thomas F., Chainman and Rodman, appointed Dock Builder July 20, 1888; made Laborer June 16, 1899; made Sounder March 29, 1901, at 25c. an hour; made Chainman and Rodman July 11, 1901; increased to $1,080 July 15, 1904.

Malmquist, Edward A., Chainman and Rodman, appointed Chainman and Rodman June 21, 1906, at $1,080.

Morton, Willis A., Chainman and Rodman, appointed Chainman and Rodman, at $1,080, June 21, 1906.

Moss, Frank, Chainman and Rodman, made Chainman and Rodman from Sounder, August 21, 1899; increased to $1,080 May 27, 1904.

Quinn, James P., Chainman and Rodman, appointed Dock Laborer May 12, 1904; made Marine Sounder June 26, 1906, at $18 per week; made Chainman and Rodman December 15, 1909, at $1,080.

Strittmatter, August, Chainman and Rodman, appointed Marine Sounder September 3, 1901, at 25c. an hour; June 30, 1902, at $18 per week; January 1, 1909, made Chainman and Rodman at $900; increased to $1,080 on April 1, 1909.

Sullivan, Daniel, Chainman and Rodman, appointed Boatman July 9, 1891; made Marine Sounder November 2, 1900, at $18 per week; made Chainman and Rodman June 28, 1901, at $1,080.

Sullivan, William J. F., Chainman and Rodman, appointed Sounder June 15, 1895; made Chainman and Rodman June 28, 1901, at $1,080; decreased to $900, April 29, 1902; increased to $1,080, April 4, 1904.

Zinner, Alex. J., Chainman and Rodman, appointed Chainman and Rodman June 21, 1906, at $1,080.

Schultz, Charles M., Chainman and Rodman, appointed Chainman and Rodman August 19, 1907, at $1,080.

Lange, Gottlieb, Chainman and Rodman, appointed Laborer August 7, 1893; made Marine Sounder December 23, 1897, at $18 per week; made Chainman and Rodman June 28, 1901; salary increased to $1,080 May 7, 1904.

The Commissioner states the following

Ten of these men are constantly engaged on work of a higher class than that called for by their titles, namely, the two on construction, one doing draughting, and seven doing the work of Transitmen, the remainder are capable of doing better work or are not required outside their grade, or are very old and faithful employees and very efficient in their grade.

The salaries of these men have not been increased for many years, although their expenses must have greatly increased with the general advance in prices. It is to be supposed that the men who are capable of better work will at some time pass the examination and be promoted to the position of Transitman; but even for those who cannot, it seems to me that an advance in salary is only common justice, and I therefore beg to suggest for your consideration the advisability of establishing the grade of $1,200 per annum for all of the present 18 incumbents.

We recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHELL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Docks and Ferries of the grade of position in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Chainman and Rodman	$1,200 00	18

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Deputy Register of Kings County requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of said Register of Kings County of the grade of position of Executive Clerk, at $1,200 per annum for one incumbent:

(On May 4, 1911, the request of the Deputy Register of Kings County for the establishment of above grade was referred to said Committee.)

Office of the Register of Kings County Hall of Records, Borough of Brooklyn, New York City, April 29, 1911.

The Honorable Board of Estimate and Apportionment, New York City:

Dear Sirs—I desire to establish the position of Executive Clerk, at an annual salary of $1,200 per annum in this office, as such position is necessary.

As the establishment of this grade will not involve any additional expense to the City, I respectfully ask that the following modification be made in the Budget schedule lines for the current year.

To insert a line reading, Executive Clerk, $1,200. To change the line reading, 14 Clerks, at $1,200, so as to read 13 Clerks, at $1,200.

Awaiting your favorable action, believe me. Yours very truly,

JAMES S. REGAN, Deputy Register.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 29, 1911, the Deputy Register of Kings County requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Executive Clerk, at $1,200 per annum. In connection therewith, we report as follows:

The establishment is proposed to change the title of Felix G. Kernan, a Clerk, at the $1,200 rate, who has been in the service since June 15, 1906. The Register states that the new title is asked for to conform to the incumbent's work. Mr. Kernan makes up the payrolls and has charge of the correspondence of the office. No change in compensation is involved.

We recommend approval of request by the adoption of the attached resolution.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the Register of Kings County of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Executive Clerk	$1,200 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Department of the grade of position of Typewriter Copyist, at $750 per annum for an unlimited number of incumbents:

(On June 1, 1911, the request of the Commissioner of Water Supply, Gas and Electricity for the establishment of the above grade was referred to said Committee.)

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, May 26, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—The minimum rate of pay established in this Department for the position of Typewriter Copyist is $900 per annum. I would prefer that a smaller rate, $750 per annum, be established for the beginners, thus giving an opportunity for subsequent advancement, and I therefore recommend that the Board of Estimate and Apportionment request the establishment by the Board of Aldermen of the rate of $750 per annum for Typewriter Copyists, not limiting the number of incumbents.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 26, 1911, the Commissioner of Water Supply, Gas and Electricity requested the establishment in his Department, pursuant to the provisions of section 56 of the Charter, of the grade of position of Typewriter Copyist, at $750 per annum, for an unlimited number of incumbents.

The minimum grade of Typewriter Copyist in the Department is $900 per annum. The Commissioner states that in his opinion the rate is too high for new incumbents, and therefore he proposes the $750 grade.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Water Supply, Gas and Electricity of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Typewriter Copyist	$750 00	Unlimited.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Board of the grade of position of Librarian at $2,500 per annum for one incumbent.

(On June 22, 1911, the resolution of the Board of Aldermen requesting the establishment of the above grade was referred to said Committee.)

In the Board of Aldermen.

Resolved, That the Board of Estimate and Apportionment be and hereby is requested to establish the grade of Librarian in the office of the City Clerk and Clerk of the Board of Aldermen, with compensation at the rate of $2,500 per annum.

Adopted by the Board of Aldermen June 13, 1911, a majority of all the members elected voting in favor thereof. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 26, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1911, the Board of Aldermen adopted a resolution requesting the establishment of the grade of Librarian in the office of the City Clerk and Clerk of the Board of Aldermen, with compensation at the rate of $2,500 per annum. In connection therewith, we report as follows:

The request involves an increase of $500 per annum in the compensation of Philip Baer, Librarian, Board of Aldermen and City Clerk. Mr. Baer has held the position since January 17, 1895. He has charge of the library in the City Hall, and is responsible for the care of 9,000 volumes of manuscripts and printed records of the National, State and City governments. In addition, he is required to index the ordinances and resolutions adopted by the Board of Aldermen and approved by the Mayor. He is frequently called upon to assist the clerical force in the Marriage Bureau.

The City Clerk states that Mr. Baer is a faithful and competent official, and entitled to the increase.

We recommend the adoption of the attached resolution approving of the requests.

Respectfuly,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Board of Aldermen of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Librarian	$2,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the County Judge and Surrogate of Richmond County requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the County Court and Surrogate's Court of Richmond County of the grade of position of Confidential Clerk at $1,800 per annum for one incumbent.

(On June 15 and 22, 1911, the request of the County Judge and Surrogate of Richmond County for the establishment of the above grade was referred to said Committee.)

County of Richmond, Surrogate's Office, Richmond, N. Y., June 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Mr. Thomas F. Curley is a Clerk in the Surrogate's Court of Richmond County at a salary of $1,650. He is a competent stenographer and typewriter, and his salary is certainly inadequate. Another Clerk holding substantially the same position gets $1,800.

I beg to ask you to increase Mr. Curley's salary to $1,800.

Yours respectfully, SIDNEY F. RAWSON, County Judge and Surrogate.

County of Richmond, Surrogate's Office, Richmond, N. Y., June 19, 1911.

Hon. WILLIAM J. GAYNOR, *Chairman, Board of Estimate and Apportionment,* City Hall, Borough of Manhattan, N. Y.:

Dear Sir—I respectfully request that the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Charter of The City of New York, recommend to the Board of Aldermen an increase in the salary for the following grade of position heretofore established for the County Court and Surrogate's Court of Richmond County, to wit:

Confidential Clerk, $1,650 to $1,800 per annum, for one incumbent.

No additional appropriation for the current year will be necessary, as there is an approximate unexpended balance in the Salary Account of this Department of $200.

The increase asked for is only $150 beyond that heretofore received by the person now holding the position.

The duties which are performed by the present incumbent, aside from being of a confidential nature, are of a general character, and involve a familiarity with the whole range of Surrogate practice. His nine years' service in this Court have made him indispensable as an Assistant, and I am of the opinion that his application for an increase of salary is meritorious and just. Respectfully yours,

SIDNEY F. RAWSON, County Judge and Surrogate of Richmond County.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 19, 1911, the County Judge and Surrogate of Richmond County requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Confidential Clerk, at $1,800 per annum, for one incumbent. In connection therewith, we report as follows:

The grade is requested for Thomas F. Curley, who has been Confidential Clerk in the Court since April 14, 1902. His compensation is $1,650 per annum, and the County Judge and Surrogate states that his work, in addition to its confidential nature, calls for intimate knowledge of all the details of the Court. He also states that Mr. Curley's nine years of service have made him "indispensable as an assistant." Another Clerk, holding substantially a similar position in the Court, receives $1,800 per annum.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the County Court and Surrogate's Court, Richmond County of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Confidential Clerk	$1,800 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Surrogate of Queens County, requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of said Surrogate of the grade of position of Copyist at $900 per annum for one incumbent:

(On June 1, 1911, the request of the Surrogate of Queens County for the establishment of the above grade was referred to said Committee.)

Office of the Surrogate, Queens County, N. Y., Jamaica, May 1, 1911.

To the Board of Estimate and Apportionment, New York City, N. Y.:

Gentlemen—Pursuant to chapter 56 of the Greater New York Charter, as amended, request is herewith made to the Board of Estimate and Apportionment to fix the salary of Copyist in the office of the Surrogate of Queens County at $900 per annum; one incumbent. Yours respectfully, DANIEL NOBLE, Surrogate.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 1, 1911, the Surrogate of Queens County requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Copyist, at $900 per annum, for one incumbent. In connection therewith we report as follows:

The establishment is to increase the compensation of William J. Mahoney, Copyist, appointed on January 1, 1910, at $720 per annum, the present rate. Another Copyist on the same work receives $1,200 per annum. The average compensation for the position of Copyist in other county offices is $1,000. The Surrogate states that Mr. Mahoney is a competent and willing employee, frequently working overtime to keep up the work of the office.

We recommend the adoption of the attached resolution approving the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the Surrogate, Queens County, of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Copyist	$900 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Chief City Magistrate, Second Division, requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the City Magistrates' Courts, Second Division, the grade of position of City Magistrate, at $7,000 per annum, for 16 incumbents:

(On March 2, 1911, the request of the Chief City Magistrate, Second Division, that the salaries of the City Magistrates, Second Division, be fixed at $7,000 per annum, was referred to said Committee.)

Office of Chief City Magistrate, Board of City Magistrates, Second Division, City of New York, Borough Hall, Brooklyn, February 27, 1911.

Joseph Haag, Esq., *Secretary, Board of Estimate and Apportionment,* City of New York:

Dear Sir—Application is hereby made under section 56 of the Charter of Greater New York to fix the salary of the City Magistrates in the Second Division of The City of New York, at the rate of seven thousand dollars per annum, which will be equal to the amount now paid to the City Magistrates of the First Division in said City.

I am informed that it was contemplated under the provisions of chapter 659 of the laws of 1910, which made it permissible for your honorable Board to equalize the Magistrates' salaries. Respectfully yours,

OTTO KEMPNER, Chief City Magistrate, Second Division, City of New York.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 29, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On February 27, 1911, the Chief City Magistrate of the City Magistrates' Courts, Second Division, comprising Brooklyn, Queens and Richmond, requested that the salaries of the City Magistrates of those Courts be equalized with the salaries paid the City Magistrates, First Division, comprising Manhattan and The Bronx. In connection therewith we report as follows:

The sixteen City Magistrates in the First Division receive compensation at the rate of $7,000 per annum each. There are sixteen City Magistrates in the Second Division. The ten Magistrates in Brooklyn receive $6,000 per annum each, while four Magistrates in Queens and two Magistrates in Richmond receive $5,000 per annum each.

The duties of the Magistrates in the two Divisions are identical. They are appointed under their actions governed by the same law. Although the number of prisoners araigned in the Courts in the First Division exceeds the number arraigned in the Second Division, the requirements for the daily opening and closing of the sessions of the Courts are similar.

There are eleven Courts in the First Division and fifteen in the Second Division. The Magistrates in the First Division serve on the bench on an average twenty-two days a month. The Magistrates in the Second Division average twenty-eight days of service every month, owing to the four extra Courts in the Division. A Magistrate in the Second Division frequently sits in two Courts on the same day.

Chapter 659, Laws of 1910, "An Act in Relation to the Inferior Courts of Criminal Jurisdiction in The City of New York," provides that "the Board of Aldermen, upon the recommendation of the Board of Estimate and Apportionment, is hereby authorized to equalize the salaries of the Associate Justices of the Court of Special Sessions and of the City Magistrates of the First and Second Divisions."

The salaries of the Justices of the Court of Special Sessions, in Brooklyn, Queens and Richmond have been equalized with the compensation paid the Justices of the same Court in Manhattan and The Bronx.

In view of the facts herein stated it would appear reasonable that the request be approved. We recommend therefore the adoption of the attached resolution approving of the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the City Magistrates Courts, Second Division, of the grade of position, in addition to those heretofore established, as follows.

Title.	Rate Per Annum.	Number of Incumbents.
City Magistrate	$7,000 00	16

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Chief Justice of the Court of Special Sessions requesting the establishment of the following position in said Court:

	Per Annum.	Incumbent.
Clerk, Part II	$5,000 00	1
Deputy Clerk, Part II	4,000 00	1
Court Stenographer, Part II	2,500 00	1

—together with a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment of positions, as follows:

	Per Annum.	Incumbent.
Clerk of Court, Brooklyn	$4,000 00	1
Deputy Clerk, Brooklyn	3,500 00	1

—and further recommending that the request of the Chief Justice of the Court of Special Sessions in so far as it relates to the establishment of the grade of Court Stenographer at $2,500 per annum be referred to the Budget Committee for consideration in the preparation of the 1912 Budget:

(On April 20, 1911, the request of the Chief Justice of the Court of Special Sessions for the establishment of the above grades was referred to said Committee.)

Court of Special Sessions of The City of New York, April 17, 1911.

To the Honorable, the Board of Estimate and Apportionment of The City of New York, 277 Broadway, City:

Dear Sirs—Application is hereby made, under section 56 of the Greater New York Charter, to have the salary of Clerk of Part II. of the Court of Special Sessions of The City of New York fixed at $5,000 per annum for one incumbent; and the salary of Deputy Clerk of Part Two of the Court of Special Sessions of The City of New York fixed at $4,000 per annum for one incumbent; and also to have the salary of Court Stenographer of Part II. of the Court of Special Sessions of The City of New York fixed at $2,500 per annum for one incumbent. Respectfully,

ISAAC FRANKLIN RUSSELL, Chief Justice.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 17, 1911, the Chief Justice of the Court of Special Sessions requested the establishment in the Court, pursuant to the provisions of section 56 of the Greater New York Charter, of the following grades of positions:

	Rate Per Annum.	Number of Incumbents.
Clerk	$5,000 00	1
Deputy Clerk	4,000 00	1
Court Stenographer	2,500 00	1

In connection therewith we report as follows:

Joseph L. Kerrigan is Clerk in Part II., Brooklyn. He was appointed on February 1, 1898, at $3,000, the present rate, and it is proposed to promote him to the $5,000 grade requested. During the year 1898, 1,344 cases were disposed of in the court, against 6,400 cases in 1910. The fines in 1898 amounted to $975. In 1910 they amounted to $24,000.

Mr. Kerrigan's services include general charge of systems of records, bookkeeping accounts, records of judgments, cases on appeal, and court orders. He issues all warrants and attachments and supervises the work of the clerical force. It seems that establishment for $4,000, or for an increase of $1,000 per annum, would be reasonable.

John J. Dorman, in the position of Deputy Clerk in Part II., Brooklyn, has been in the Court for the last eleven years, and has received no increase during that period. It is proposed to increase him from $2,500 to $4,000 grade asked for. Mr. Dorman has charge of the court calendars, collects all fines, prepares the minutes of each case disposed of, makes out all the commitments, and is in charge of the clerical force during the absence of the Clerk. The Deputy Clerk in Part I., Manhattan, receives $4,000 per annum. It seems that establishment at $3,500, or for an increase of $1,000 per annum, would be reasonable.

George M. Demin has been Court Stenographer in Part II. since 1906, at $2,000 per annum. It is proposed to promote him to the $2,500 grade requested. We recommend that the item be referred to the Budget Committee for consideration in the preparation of the 1912 Budget.

We recommend the adoption of the attached resolution approving of establishment for the Clerk, at $4,000, and the Deputy Clerk at $3,500 per annum.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Court of Special Sessions, of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Clerk of Court, Brooklyn	$4,000 00	1
Deputy Clerk, Brooklyn	3,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The item in re the establishment of the grade of position of Court Stenographer, Part II., at $2,500 per annum, was referred to the Budget Committee, consisting of the Comptroller, the President of the Borough of Manhattan and the President of the Board of Aldermen.

The Secretary presented the following communication from the Clerk of the City Court of New York requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Court of the grade of position of Stenographer and Typewriter at $1,800 per annum for one incumbent:

(On June 8, 1911, a communication from the Clerk of the City Court relative to the establishment of the above grade was referred to said Committee.)

City Court of The City of New York, New York, June 5, 1911.

Joseph Haag, *Secretary, Board of Estimate and Apportionment, 277* Broadway:

Dear Sir—Pursuant to the provisions of chapter 173 of the Laws of 1911, the Justices of the City Court of The City of New York are empowered to appoint one Stenographer and Typewriter. The Chief Justice directs me respectfully to request the Board of Estimate and Apportionment, pursuant to section 56 of the Charter, to recommend to the Board of Aldermen that the salary of the said position be fixed at $1,800 per annum. Yours respectfully,

THOMAS F. SMITH, Clerk of the City Court.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 5, 1911, the Chief Justice of the City Court requested that the salary of a Stenographer and Typewriter, an additional employee authorized by chapter 173, Laws of 1911, be fixed at the rate of $1,800 per annum, pursuant to the provisions of section 56 of the Greater New York Charter. In connection therewith we report as follows:

Chapter 173 of the Laws of 1911, amends the Code of Civil Procedure relating to the City Court, and provides for the appointment by the Justices of "a Stenographer and Typewriter Operator for the purpose of copying their minutes and opinions, and doing such confidential work which may be required by said justices or the Clerk of the Court."

The act also provides that "the Stenographer and Typewriter Operator is entitled to a salary fixed and to be paid as prescribed by law."

The Chief Justice states that there are ten Justices of the Court, and that the only Stenographers at present employed are Court Stenographers, who are too busy at their regular duties to render any extra services. The Chief Justice also states that in his opinion compensation at the rate of $1,800 per annum would be reasonable and fair for the character of the work to be required of a competent incumbent.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the City Court of New York of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Stenographer and Typewriter........................	$1,800 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Brooklyn requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of the President of the Borough of Brooklyn of the grade of position of Inspector of Regulating, Grading and Paving at $1,800 per annum for an unlimited number of incumbents:

(On June 22, 1911, the request of the Acting President of the Borough of Brooklyn for the establishment of the above grade was referred to said Committee.)

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, June 19, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 277 Broadway, New York City:

Dear Sir—In conformity with the provisions of section 56 of the Charter, I would respectfully request that you prepare a resolution for adoption by the Board of Estimate and Apportionment recommending to the Board of Aldermen the establishment of the position of Inspector of Regulating, Grading and Paving in this Department, at $1,800 per annum, number of incumbents unlimited. Yours truly,

L. H. POUNDS, Commissioner of Public Works and Acting President, Borough of Brooklyn.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 19, 1911, the Acting President of the Borough of Brooklyn requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Inspector of Regulating, Grading and Paving, at $1,800 per annum, for an unlimited number of incumbents. In connection therewith we report as follows:

It is stated that there are a number of Inspectors of Regulating, Grading and Paving who act as Supervising Inspectors, and that the establishment is for conformity with their work. The incumbents are to be selected from a Civil Service promotion list. The maximum grade for the position in the office is $1,650 per annum. It is proposed at present to appoint six incumbents at the $1,800 grade. The Inspectors are paid from assessment funds.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the President of the Borough of Brooklyn of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Inspector of Regulating, Grading and Paving............	$1,800 00	Unlimited.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, Queens and Richmond—15.

Negative—The President of the Borough of The Bronx—1.

The Secretary presented the following communication from the Commissioner of Docks relative to, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending that, in pursuance of chapter 301 of the Laws of 1911, the rates of compensation of certain positions in the Department of Docks and Ferries be fixed as follows:

	Per Annum.
Commissioner of Docks, at..	$7,500 00
First Deputy Commissioner, at..	5,000 00
Second Deputy Commissioner, at...	5,000 00

(On June 15, 1911, a communication from the Commissioner of Docks, requesting that his salary be fixed at $7,500 and that the First and Second Deputy Commissioners of Docks at $6,000 per annum, respectively, in pursuance of chapter 301, Laws of 1911, was referred to said Committee.)

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, June 12, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, and Chairman of the Board of Estimate and Apportionment:*

Sir—An act has been passed by the Legislature this session and has been approved by the Mayor and the Governor, which reads as follows:

"An Act to amend the Greater New York Charter, relative to the number of deputies in the department of docks and ferries.

"The People of theState of New York, represented in the Senate and Assembly, do enact as follows:

"Section 1. Section eight hundred and sixteen of the Greater New York charter, as re-enacted by chapter four hundred and sixty-six of the laws of nineteen hundred and one, as amended by chapter seven hundred and twenty-four of the laws of nineteen hundred and one, and as amended by chapter six hundred and seventy-nine of the laws of nineteen hundred and seven is hereby amended so as to read as follows:

Commissioner of Docks, Deputy Commissioners, Appointment and Salaries.

"Section 816. The head of the department of docks and ferries shall be called the commissioner of docks. He shall be a resident of the city of New York, and shall be appointed by the mayor. The said commissioner shall have the power to appoint and at pleasure remove two deputies, to be known as first deputy and second deputy. The salary of the said commissioner and said deputies shall be fixed by the board of estimate and apportionment of the city of New York. Pending action by the said board, the salary of said first deputy shall be four thousand five hundred dollars a year, payable monthly. In the absence or inability to act of the commissioner, said first deputy shall possess all the powers and perform all the duties of the commissioner. In the absence or inability to act of the commissioner and the first deputy, the said second deputy shall possess all the powers and perform all the duties of the commissioner. The commissioner shall define the duties of the deputy commissioners and may delegate to either of them any of his powers.

"Section 2. This act shall take effect immediately."

I beg to recommend that the salary of the Commissioner of Docks be fixed at the rate of $7,500 per annum, the salary of the First Deputy at $6,000, and the salary of the Second Deputy at $6,000 per annum.

The salary of the Commissioner remains as it is at the present time.

The salary of the present deputy is $4,500 and my reasons for recommending that the salary of each of the two Deputies be fixed at $6,000 per annum are as follows:

The majority of the First and Second Deputy Commissioners of the City receive this amount.

Prior to January 1, 1902, the department was administered by three Commissioners, and since then there has been a single-headed commission, with one Deputy, to take care of the entire five boroughs. Since the department has been under a single-headed commission, the work, especially in the boroughs outside of Manhattan, has incrased many-fold, and there is immediate necessity for the appointment of an additional Deputy, which is instanced by the fact that during the year 1910, the present Deputy was unable to take any vacation, and at the present time the Commissioner and only Deputy Commissioner are so closely confined to the routine duties of the Department that they are unable to give that attention to the larger needs of the Port that is absolutely necessary, especially in view of the possibility of larger improvements being planned and undertaken in the near future.

Considering the large amount of work and the responsibility which will be thrown upon the Deputy Commissioners of this department, in my opinion the salary of $6,000 per annum is only a fair compensation to pay them for their services.

I respectfully request that action be taken on this matter immediately as the summer vacation time is approaching and in the absence of the only Deputy Commissioner this department now has, the Commissioner is called upon to spend a large amount of his time in signing papers, holding trials and performing other duties which the Commissioner or his Deputy are called upon by law to do, when the Commissioner's attention might otherwise be employed to better advantage to the City's interests. Yours respectfully.

CALVIN TOMKINS. Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request, on June 12, 1911, of the Commissioner of Docks that his salary be fixed at $7,500 per annum, and the salaries of the First Deputy and the Second Deputy Commissioners be fixed at $6,000 per annum each, we report as follows:

Chapter 301 of the Laws of 1911, provides for the appointment of two Deputy Commissioners for the Department of Docks and Ferries, to be known as First Deputy and Second Deputy. It further provides that the salary of the Commissioner of Docks and the salaries of the Deputy Commissioners shall be fixed by the Board of Estimate and Apportionment. Pending action by the Board it is stipulated that the salary of the First Deputy shall be $4,500 per annum, payable monthly.

The present compensation of the Commissioner is $7,500 per annum. He requests that the rate be fixed in compliance with chapter 301, Laws of 1911.

It is proposed to appoint Benjamin F. Cresson, Jr., of 839 West End avenue, Manhattan, First Deputy Commissioner, and William J. Barney of 1187 Lexington avenue, Manhattan, Second Deputy Commissioner.

Mr. Cresson is the present Deputy Commissioner. He was appointed on January 17, 1910, at $4,500 per annum. Mr. Barney is the Secretary of the Department. He was appointed on January 17, 1910, at $4,000 per annum. The rates for Deputy Commissioners in other City departments are as follows:

Correction	$4,000 00
Bridges	4,500 00
Public Charities	5,000 00
Street Cleaning	5,000 00
Fire	5,000 00
Parks	5,000 00
Police	6,000 00

Water Supply, Gas and Electricity, Manhattan	6,000 00
Water Supply, Gas and Electricity, The Bronx	4,000 00
Water Supply, Gas and Electricity, Brooklyn	5,500 00
Water Supply, Gas and Electricity, Queens	4,000 00
Water Supply, Gas and Electricity, Richmond	3,000 00

The Commissioner of Docks is almost exclusively engaged on the problems of port reorganization, such as the development and carrying out administrative and engineering plans to decrease congestion in the harbor.

In the absence of the Commissioner, the present Deputy becomes Deputy and Acting Commissioner. He is then responsible for the administration and proper conduct of the Department, and presides at trials. The usual duties of the Deputy are to pass upon the construction and maintenance of piers and wharves along the entire City's waterfront, and to adjust disputes relative to docking and berthing facilities. He also has jurisdiction over all matters pertaining to the operation and maintenance of the Municipal Ferries. In addition, he is required to assist the Commissioner in the various plans of port reorganization and port improvement, such as the Riverside Drive Improvement, the Manhattan West Side Terminal, the South Brooklyn Improvement, etc.

The appointment of the Second Deputy Commissioner is proposed so that the First Deputy Commissioner may have more time to assist the Commissioner in port reorganization and development, and to assume charge of routine matters of engineering requiring administrative action, and the administrative problems of the Bureau of Ferries.

It is further proposed that the Second Deputy Commissioner shall relieve the First Deputy Commissioner of such routine administration as approval of payrolls, vouchers and handling of Department stores, contracts, etc. Matters requiring administrative decision, such as berthing and docking facilities, the municipal plant in West 57th street, are to be referred to the Second Deputy.

The Department of Docks and Ferries is one of the largest in the City. It has jurisdiction in the five Boroughs, controlling the construction and maintenance of piers and docks along 444 miles of waterfront, and the maintenance and operation of the Municipal Ferries.

We are of the opinion that the rate of $5,000 per annum for each of the First and Second Deputy Commissioners would be reasonable.

We recommend, therefore, the adoption of the attached resolution granting the request to the extent of $5,000 per annum for each Deputy.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 301 of the Laws of 1911, the Board of Estimate and Apportionment hereby fixes rates of compensation of positions in the Department of Docks and Ferries as follows:

	Per Annum.
Commissioner of Docks	$7,500 00
First Deputy Commissioner	5,000 00
Second Deputy Commissioner	5.000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Select Committee as above to the Commissioner of Docks.

The Secretary presented the following communication from the Department of Health requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Department of the grade of position of Clerk at $3,000 per annum for one incumbent:

(On February 2, 1911, the request of the Department of Health for the establishment of the above grade was referred to said Committee.)

Department of Health, City of New York, Southwest Corner 55th Street and 6th Avenue, Borough of Manhattan, Office of the Secretary, New York, January 27, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held January 24, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be and is hereby respectfully requested to approve of the establishment of an additional grade of the position of Clerk in the Department of Health, and recommend to the Board of Aldermen, in accordance with the provisions of section 56 of chapter 466 of the Laws of 1901, that the salary of said grade be fixed at the rate of $3,000 per annum.

A true copy, EUGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 28, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On January 27, 1911, the Board of Health requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the additional grade of position of Clerk in the Department of Health at the rate of $3,000 per annum. In connection therewith we report as follows:

The grade is asked for to increase the salary of George P. Foulk from $2,550 to $3,000 per annum. Foulk was appointed as a Law Clerk on October 28, 1890, at $1,400 per annum. On December 1, 1901, his salary was increased to $1,500; on May 1, 1902, to $1,650, and on January 12, 1906, to the present rate, when his title also was changed to Clerk.

The Commissioner states that for several years previous to 1902 an Assistant Corporation Counsel was assigned to the Department of Health at $5,000 per annum. Foulk assisted this legal adviser, and since 1902 he has done the work formerly done by himself and the $5,000 Assistant Corporation Counsel. The work is stated to have doubled in the last ten years. Foulk prepares all papers in legal and criminal actions, and advises the Commissioner and the Board of Health on all legal matters. It is stated that his opinions are seldom reversed.

It is proposed to provide for the increase by transfer within the appropriation.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Department of Health of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Clerk	$3,000 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Richmond requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, th eestablishment in the office of said Borough President of the position of Chemist at $1,500 per annum for one incumbent:

(On June 8, 1911, the request of the President of the Borough of Richmond for the establishment of the above position was referred to said Committee.)

Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 2, 1911.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—We would ask for the establishment of the position of Chemist at a salary of $1,500 per annum.

We frequently need the services of a Chemist, but shall need them all the time in connection with the Sewage Testing Station, for the establishment of which we have made application and for which we hope to receive appropriation.

Yours very truly, GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 2, 1911, the President of the Borough of Richmond requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the position of Chemist, at $1,500 per annum. In connection therewith we report as follows:

In the Corporate Stock Budget for 1911 the Corporate Stock Budget Committee has recommended an authorization of $30,000 for the establishment of an experimental plant for making sewerage tests at New Brighton, Borough of Richmond. The President states that the Chemist is to be engaged permanently in connection with the testing plant. It appears that the proposed rate is reasonable.

We recommend the approval of the request by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the President of the Borough of Richmond of the position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Chemist	$1,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the said Department of the grade of position of Inspector of Blasting, at $1,500 per annum, for two incumbents:

(On April 27, 1911, the request of the Fire Commissioner for the establishment of the above grade was referred to said Committee.)

Fire Department of The City of New York, Office of the Commissioner, April 19, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, and Chairman, Board of Estimate and Apportionment:*

Sir—Referring to my application of March 25, 1911, for the establishment in this Department of the position of "Inspector of Blasting," for two incumbents, at $1,500 per annum, I have the honor to request that the number of proposed incumbents be increased to four at said rate of compensation. The establishment of the position for four incumbents will not increase the total appropriation made to this Department for the current year.

To provide the necessary funds, it is proposed to eliminate the position of Superintendent of Buildings, at $3,000 per annum, in the Bureau of Repairs and Supplies, Boroughs of Manhattan, The Bronx and Richmond, and two positions of Oil Surveyor, at $1,500 per annum, in the Bureau of Combustibles of said Boroughs, which are now vacant. Respectfully, R. WALDO, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 24, 1911, the Fire Commissioner requested the establishment in his Department, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Inspector of Blasting, at $1,500 per annum, for two additional incumbents. In connection therewith we report as follows:

The request is supplemental to one made on March 25, 1911, for the establishment of the position of Inspector of Blasting, at $1,500 per annum, for two incumbents, and which was approved by this Board on May 4, 1911. It is stated that the services of the additional incumbents are necessary in the Bureau of Combustibles for the inspection of depositories of blasting explosives and the supervision of blasting operations. The yearly departmental cost will not be increased by the establishment, as the necessary funds are to be provided by the elimination of two positions of Oil Surveyors, at $1,500 each per annum, in the Bureau of Combustibles, Manhattan, The Bronx and Richmond.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Alderment; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Fire Department of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Inspector of Blasting	$1,500 00	2

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Street Cleaning requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment of the grade of position of Supervisor of Juvenile Leagues, at $1,200 per annum, for one incumbent, Reuben S. Simons:

(On April 20, 1911, the request of the Commissioner of Street Cleaning for the establishment of the above grade was referred to said Committee.)

Department of Street Cleaning of The City of New York, 13-21 Park Row, New York, April 11, 1911.

Hon. William J. Gaynor, *Mayor, Chairman Board of Estimate and Apportionment,* City of New York:

Sir—I desire to establish in the Department of Street Cleaning a new position, namely, Supervisor of Juvenile Leagues, exempt class, at a salary fo $1,200 per annum. Mr. Reuben S. Simons is at present carrying on the work of supervising the juvenile leagues, but in the recent examination classifying the Assistant Foreman, Second Grade, it was impossible for Mr. Simons to qualify, owing to the fact that he has become blind in the service of the Department, to which he was appointed in 1890. He is unable to perform the duties of a Sweeper, Driver, Stableman or Hostler on account of his blindness, and I desire to have him continue the work which he has been carrying on for the last ten or twelve years, as it deals with the education of the public school children in matters pertaining to the Sanitary Code and rules of this Department and teaches them to take a pride in their neighborhood conditions. Through the school children the parents are reached as they could be in no other way.

I therefore request that your Board establish in this Department the position of Supervisor of Juvenile Leagues, exempt class, and that your Board recommend to the Board of Aldermen, pursuant to section 56 of the Charter,, that the salary of said position be fixed at $1,200 per annum. Respectfully.

WM. H. EDWARDS, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 11, 1911, the Commissioner of Street Cleaning requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Supervisor of Juvenile Leagues, at $1,200 per annum. In connection therewith we report as follows:

The grade is proposed for Reuben S. Simons, who has been in the Department since 1890. Until recently his title was Assistant Section Foreman. Early in 1911 it was decided to classify the Assistant Foremen. In an examination it was found impossible for Mr. Simons to qualify, for the reason that he had become blind in the service of the Department.

Mr. Simons has been supervising the Juvenile Leagues for the last ten years with great success, and the Commissioner proposes to have the work go on under his supervision.

The work being done by Mr. Simons has been highly commended by the press and the public, and his success has led to many other cities becoming interested in juvenile leagues.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Department of Street Cleaning of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Supervisor of Juvenile Leagues	$1,200 00	1 For Reuben S. Simons.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Sheriff of Queens County requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of said Sheriff of the grade of position of Warden at $2,000 per annum for one incumbent:

(On March 30, 1911, the request of the Sheriff of Queens County for the establishment of the above grade at $3,000 per annum was referred to said Committee.)

Office of the Sheriff, Queens County, County Court House, Long Island City, March 21, 1911.

The Honorable Board of Estimate and Apportionment, New York City, N. Y.:

Gentlemen—As Sheriff of the County of Queens, I most respectfully request the establishment of the grade of Warden of the Queens County Jail, at a salary of $3,000 per annum.

In support of this request, I beg to offer the following reasons:

First—I believe that persons holding positions of similar character and performing the same duties exactly, should receive a compensation on an equalization basis. I find that the Warden of the Kings County Jail, and as well the Warden of the Ludlow Street Jail, receive $3,000 per annum, and they alone have under their jurisdiction civil prisoners. In addition to taking care of civil prisoners, the Warden of the Queens County Jail has under his jurisdiction, control and supervision all the criminal prisoners of Queens County detained either before or after conviction.

I might state that there has been incarcerated in the Queens County Jail, prisoners of a very desperate character. Only here recently, in the last jail delivery from Sing Sing Prison, was prisoners formerly incarcerated in this institution, pending their trial and conviction, and in another instance, and here only recently, a prisoner previously convicted of burglary and sentenced to life imprisonment at the State Prison at Sing Sing, and subsequently transferred to Dannemora Prison, attempted to kill the Warden and other officials of that institution, and he too, was also incarceraed in the Queens County Jail, pending his trial and conviction.

I may also say that a recent act of the legislature, known as the Criminal Inferior Court Bill which made it mandatory on my part to install the system, known as the Bertillon or Finger Print System, the installation of which involved an additional and more serious responsibility upon the Warden.

Statistics show that, while the Warden of the Ludlow Street Jail has under his daily supervision about thirty prisoners, and the Warden of the Raymond Street Jail about fifteen, the Warden of the County Jail of Queens County has under his daily supervision an average of about one hundred twenty-five prisoners, both male and female, civil and criminal included.

I believe statistics will show that we received over two thousand prisoners during the year, ending September 30, 1910, and we discharged approximately, that year, about the same number, which is far in excess of either of the two institutions referred to herein.

Second—The present incumbent has been the Warden of the Queens County Jail for the past four years, and previous to that he was connected with this department for at least eight years, making a total of twelve years of service in this department, with an excellent record. I feel that the incumbent is entitled to the compensation asked for herein, as I know he is capable in every respect and positively know that he would receive the recommendations of my four predecessors under whom he has worked. I am doubly sure that his services warrant the said compensation, for I understand that he took a competitive Civil Service Examination for his present position as Warden, receiving a rating of some 98 per cent. I really believe he is more conscientious in the performance of his duties than the average city employee, for since I have been Sheriff I can safely say that I have found the Warden most attentive in his duties, performing the duties of the office at all times. In fact, the Warden's services to this department are of such a valuable nature that there are many times, not alone myself, but my predecessors, I have been told, have been obliged to call upon him for his advice in the execution of almost every criminal or civil mandate of any nature. I can frankly state from the recommendations of my predecessors that the statements which I make bear true also in the term of their office.

Believing that your honorable Board is in favor of the equalization of salaries of city employees doing work of similar character and nature, and feeling that the facts above mentioned warrant this recommendation, I sincerely trust that the same will meet with your unanimous approval. Very respectfully,

THOS. M. QUINN, Sheriff of Queens County.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 21, 1911, the Sheriff of Queens County requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Warden at $3,000 per annum for one incumbent. In connection therewith we report as follows:

The establishment is requested to increase the compensation of Henry O. Schleth, the present incumbent, at $1,200 per annum. The Wardens of the County jails in the counties of New York and Kings are at the rate of $3,000 per annum. Only civil prisoners are confined in the County jails of New York and Kings County. In the New York County jail the daily average number of prisons is eighteen, and in the Kings County jail the average is sixteen. The average for the Queens County jail is 120, including both criminal and civil prisoners.

Mr. Schleth has been Warden for the last four years. Formerly he was connected with the Sheriff's office in different positions for eight years, giving twelve years in the office. It seems that establishment at $2,000 per annum, or for an increase of $800 would be reasonable.

We recommend, therefore, the adoption of the attached resolution approving of the $2,000 grade. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the Sheriff of Queens County of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Warden	$2,000 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the County Clerk of New York County requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending that the Board, pursuant to chapter 290 of the Laws of 1911, approve of the positions and rates of compensation in the office of said County Clerk, as follows:

	Per Annum.	Incumbents.
Superintendent of Indexing and Recording	$3,500 00	1
Assistant Superintendent of Indexing and Recording	2,500 00	1
Docket Comparing Clerk	1,500 00	4
Searcher	1,500 00	3
Docket Clerk	1,500 00	4
Bookbinder	1,200 00	1
Index Clerk	1,000 00	15
Laborer	720 00	3

(On June 15, 1911, a communication from the County Clerk of New York County relative to the establishment of the above positions was referred to said Committee.)

County Clerk's Office, County of New York, New County Court House, New York, June 12, 1911.

Honorable Board of Estimate and Apportionment, City of New York:

Gentlemen—Enclosed herewith I hand you certified copy of chapter 290, Laws of 1911, which became a law with the approval of the Governor, the same to take effect September 1, 1911.

You will note that this act makes a radical change in the method of procedure relating to the filing of instruments and the keeping of records and docket books in this office.

Not only does it change the method of filing and the keeping of the books, but it compels the office to make these changes in the docket books for ten (10) years back (see the last lines of section 1245, paragraph 1).

In order to comply with the provisions of this act an additional number of Clerks will be necessary for this office, to go back ten (10) years and open a new set of books, in accordance with this act.

Also, the staff will have to be increased in order to keep up the current work of the office, in accordance with this act.

I give you below a list of clerks for this office, which I have gone over carefully, and with due regard to the expenditure of the County's money, and trust that you will give same your favorable consideration.

In accordance with the terms of this act, I submit these positions to you, with the salaries therefor, and ask that you designate and establish such positions in this office:

1 Superintendent of Indexing and Recording	at	$4,500 per annum.
1 Assistant Superintendent of Indexing and Recording	at	2,500 per annum.
4 Docket Comparing Clerks, at $2,000 each		8,000 per annum.
3 Searchers, at $1,800 each		5,400 per annum.
4 Docket Clerks, at $1,500 each		6,000 per annum.
1 Bookbinder	at	1,200 per annum.

15 Index Clerks, at $1,000 each	15,000 per annum.
3 Laborers, at $720 each	2,160 per annum.
Furniture	$1,500 00
Supplies	500 00

Reasons.

1. Docket Comparing Clerks.—This is one of the most essential parts of the work, as upon their reliability rests the responsibility of the County Clerk in regard to the accuracy of the redocketing of these judgments, and the satisfaction or assignment of the same.

2. Searchers.—One provision of this bill directs the County Clerk, upon the filing of any paper in an action where no number has been given, to go back, search the indices and collect all the papers together under one number. This search may cover fourteen (14) different kinds of indices, for a period of from one (1) to five (5) years.

3. Docket Clerks.—A fair estimate of the number of judgments for ten (10) years would be 300,000, and as they will average two and one-half (2½) names to the judgment, this amount has to be doubled, making about 700,000 judgments to be redocketed from the surname to the Christian name.

4. Bookbinder.—It will be necessary to keep these books in shape, and the servises of one (1) Bookbinder are required.

5. Index Clerks.—All those actions which have been numbered since October 1, 1910, to the number of 24,416, will have to be reindexed from the surname to the Christian name.

6. Laborers.—The docket books of this office are in constant requisition by the public, and it will be necessary for the books to be carried back and forwards from one room to another, whenever the public may make a demand for a book, or books, to be produced, and at the most careful estimate it will require three (3) laborers to accomplish this.

As you will note from this bill, the carrying out of these changes is mandatory upon the County Clerk of this County, and in accordance therewith I must commence this work on September 1, 1911.

Section 188, subdivision 7 of the Greater New York Charter gives the Comptroller of this City power to sell revenue bonds to pay the expenses made necessary by this bill.

I have written the Comptroller a similar letter, asking him, under the terms of the above section, to sell revenue bonds to the amount of $16,920, the amount necessary to pay the salaries and expenses from September 1 to December 31, 1911, inclusive. Respectfully yours,

WM. F. SCHNEIDER, County Clerk, New York County.

Senate No. 1030, Chap. 290.

An act to amend the code of civil procedure, in relation to current docket books, became a law June 7, 1911, with the approval of the Governor, passed, three-fifths being present.

The people of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. Section 1245 of the code of civil procedure is hereby amended to read as follows:

Section 1245. Certain clerks to keep docket books. Each County Clerk, and the Clerk of the City Court of The City of New York, must keep one or more books, ruled in columns, convenient for making the entries prescribed in the next section; in which he must docket, in its regular order, and according to its priority, each judgment which he is required by this article to docket. The expense of procuring new books when necessary is a county charge. The judgment dockets kept by the County Clerk of New York County must hereafter have separate volumes for each letter of the alphabet, and each judgment docket book shall have its letter, and the year or years plainly marked on its back and cover and on every page. A judgment docket shall contain the names of those judgment debtors whose last name begins with the letter marked on the back of the volume. Each volume kept by the County Clerk of said County shall also have a marginal page index showing each letter of the alphabet in order. A page of the judgment docket shall contain the names of those judgment debtors whose first name begins with the letter or whose first initial is the letter marked on the marginal index for that page; except that there shall be at the back of each volume blank pages not indexed which shall contain the names of those judgment debtors whose first names are unknown or fictitious. And there must be a separate volume which shall contain the names of those judgment debtors that are corporations, a joint stock company, a copartnership or a person or persons doing business under a firm name or style, in which shall be entered the full names thereof indexed according to the first names or the first names following prefixes or initials where there are such. And there must be prepared and kept separate volumes for judgment dockets, lettered, indexed and markd as hereinbefore provided in which there shall be entered in the same manner, in their regular order and according to their priority and as soon as it may be practicable to have it done, the names of judgment debtors against whom judgments have been docketed within ten years of the time of the making of the entry in such volumes.

Section 2. After section 1245 of the code of civil procedure, there shall be inserted a new section, to be numbered 1245-a, and to be as follows:

Section 1245-a. Current docket books. The County Clerk of New York County must keep one or more books to be known as current docket books. Each half-page of space in each book shall be consecutively numbered and shall be devoted to one action. On this half-page the Clerk shall enter the title of the action, with the names of the plaintiffs and defendants in full, and in chronological order a brief description of each paper as it is filed, together with the date of filing thereof, also the verdict, report or decision, if any, rendered in the action as of the date of the rendering thereof, also all orders and judgments in the action. All interlocutory and provisional proceedings, and proceedings supplementary to execution, shall be entered on the same half-page of the docket as the action out of which they arise, except in actions where the entries are so voluminous as to require one or more additional half-pages of space; in which case the entries shall be continued under the same number upon other pages of that or a subsequent docket book, reference thereto being entered at the end of the first and all additional half-pages. There shall be kept an alphabetical index in which all the actions entered in such current docket books during any year shall be indexed under that year according to the last names of the plaintiffs, to be so indexed in separate volumes for each letter of the alphabet, each of such volumes having a marginal page index for the first names of the plaintiffs so indexed, in the same manner provided for judgment docket books in section 1245, and there shall be kept a separate alphabetical index which shall contain the names of plaintiffs that are corporations, a joint stock company, a copartnership or a person or persons doing business under a firm name or style, in which shall be entered the full name of the corporation, joint stock company, copartnership or person or persons doing business under a firm name or style, indexed according to the first names or initials or first names following prefixes or initials where there are such, in the same manner as provided in said section; and in every case the serial number of the action shall be entered opposite the name indexed. Within three days after a summons, writ or other original process is served in an action in the supreme court, New York County, the attorney or party causing the same to be served shall file said process with proof of service in the office of the clerk who has custody of the records of the court in which the action is brought. The said clerk shall, upon receipt thereof, stamp the same with a certain number to be one of the series for that year, and enter in the current docket book, on the half-page bearing the same number, the names of the parties as they appear on said process, and the name and address of the attorney who issued the same. And the attorney or party causing such summons, writ or original process to be served shall, upon demand, give to the party so served, or to the attorney of such party, the number so stamped by the clerk, stamped or indorsed upon a paper with the title of the action, and the name and address of the attorney or party who made or caused the service to be made. All papers in the action shall bear the same number as the summonses, writ or other original process, which number shall constitute a part of the title of such action. All original papers in the action, with proof or admission of their service, not later than the day after their service, shall be filed with or mailed to the clerk who stamped the number on the summons, writ or other original process. All papers to be hereafter filed with the Clerk of New York County must be flat and filed flat. The word "action" as used in this section shall mean "action or special proceeding." Whenever a paper pertaining to any action begun prior to the passage of this act is filed in the office of the clerk who has custody of the records of the court in which the action is pending the clerk shall upon receipt of such paper stamp the same with a certain number, to be one of a series for the year in which such action was brought, and shall enter in a current docket book prepared for that year the names of the parties to the action and the name and address of the attorney who filed the paper, in the same manner as if such paper were the original summons, writ or other process in such action; and the clerk shall as soon as practicable thereafter stamp or indorse that number upon every paper in that action theretofore filed in his office and shall enter such papers, as they are so numbered, in such docket book in the same manner as if such docketing had been begun with the first paper in such action. And all such entries in such docket books of actions begun prior to the passage of this act shall be indexed in separate volumes for each letter of the alphabet, and for corporations, a joint stock company, a copartnership or a person or persons doing business under a firm name or style, in the same manner as actions begun after the passage of this act are hereinbefore directed to be indexed. Whenever an action is transferred to another court, or the place of trial changed, the clerk to whom the papers in such action are delivered shall enter in the current docket book copies of all entries theretofore made in said action, and shall continue to make subsequent entries in the same manner as if the process had originally been filed with him. All papers numbered and docketed as herein directed shall be filed together; and on the entry of final judgment in any action all the papers in that action shall be arranged in the order of the dates on which they were filed and shall be fastened or bound together flat with the judgment roll and so filed. The County Clerk of New York County shall appoint, subject to the rules of the State Civil Service Commission, such subordinates as may be necessary for the work required to be done in his office under the provisions of this act, and shall designate the positions and fix the compensation of such subordinates, subject to the approval of the Board of Estimate and Apportionment of The City of New York; and the Comptroller of The City of New York shall issue and sell revenue bonds to an amount sufficient to provide for the payment of the salaries of such subordinates during the year 1911, which shall be a charge against the County of New York, and an amount sufficient to pay and discharge the bonds so issued shall be included in the budget made by said Board of Estimate and Apportionment for the year 1912.

Section 3. This act shall take effect September 1, 1911.

State of New York, Office of the Secretary of State, ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and the whole of said original law.

Given under my hand and the seal of office of the Secretary of State, at the City of Albany, this 9th day of June, in the year 1911.

[SEAL.] JOSE PIDGEON, Second Deputy Secretary of State.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1911, the County Clerk of New York County requested the establishment of the following positions in his office, pursuant to the provisions of chapter 290 of the Laws of 1911:

Title.	Rate Per Annum.	Number of Incumbents.
Superintendent of Indexing and Recording	$4,500 00	1
Assistant Superintendent of Indexing and Recording	2,500 00	1
Docket Comparing Clerk	2,000 00	4
Searcher	1,800 00	3
Docket Clerk	1,500 00	4
Bookbinder	1,200 00	1
Index Clerk	1,000 00	15
Laborer	720 00	3

In connection therewith we report as follows:

Chapter 290 of the Laws of 1911 was drawn by the Bar Association of The City of New York, after consultation with the County Clerk for changes in the docketing of judgments and the recording of legal papers, to simplify the work of legal searchers in the County Clerk's office. It is stated that the Bar Association also was advised in drafting the bill by the Presiding Justice of the First Judicial District and the Commissioner of Records. The law becomes operative on September 1, 1911.

The County Clerk outlines the increased work made necessary by provisions of the new statute, as follows:

"The Judgment Dockets kept by the County Clerk of New York County must hereafter have separate volumes for each letter of the alphabet," etc.

This section of the new law means that this office will have to open a new set of books to the number of about 200, and not only must the current work of the office be started September 1, 1911, under this new system, and kept up to date, which entails a material increase in the work as now done, but this office will have to go back ten years, to and including the year 1901, and open an entirely new set of books from that period up to and including August 31, 1911. This means that 1,000,000 entries, or more, will have to be made to bring this up to date.

"A Judgment Docket shall contain the names of those Judgment Debtors," etc.

In opening this new set of books the system is radically changed, as follows: Prior to January 1, 1911, a Judgment, say, against James Taylor was entered indiscriminately in the "T" Judgment Docket Book. Under this new law it is mandatory upon the office to enter a judgment, or judgments, against James Taylor in the "T" Docket Judgment Book under Page "J" and on Page "J" it must be entered in the "Ta" column.

"Except that there shall be, at the back of each volume, blank pages not indexed," etc.

This section is interpreted as follows: A judgment comes in, say against A. Smith; it will have to be docketed on Page "A" in the "S" Book, in the "Sm" Column, and will then have to be redocketed in the back of the book, where fictitious, or unknown, names are docketed.

"And there must be a separate volume, which shall contain the names of those Judgment Debtors that are Corporations," etc.

Under this section there must be kept a separate volume for Corporations, which must be indexed and docketed similar to the above, instead of the present system, in which Judgments are entered indiscriminately. This work must be guaranteed by the County Clerk, for which correctness he is responsible to litigants, under his bond, and it must be compared, after being docketed, by men of large experience, who are careful and accurate in their work. Supposing that an Index Clerk transcribed a Judgment from the old book into the new, and left out a single line, which might mean a difference of thousands of dollars; unless this error was detected by the Docket Comparing Clerks before a certified search was issued by the County Clerk, certifying the correctness of this matter, the litigants to whom an injury was done could recover damages from the County Clerk. The redocketing of a Judgment does not mean solely the Judgment itself, but the transfer, assignment, satisfaction, partial satisfaction, or the issuing of an execution, or the return of an execution, must also be noted for entry in the new Docket. Any omission or error in transcribing same, not detected, would make the County Clerk liable for damages. I quote the celebrated case of Schlesinger vs. Bernstein et al., docketed July 21, 1906. In this case there are about one hundred defendants, and an omission or error of any one item in the transcribing of this Judgment would make the County Clerk liable for damages.

In this particular case it would take one man more than two weeks to transcribe correctly this old Judgment into the new book. In comparing it will be necessary for the Docket Comparing Clerks to go over their work several times before they can certify to the County Clerk that the work has been done correctly.

Section 1245a—"The County Clerk of New York County must keep one (1) or more books, known as Current Docket Books," etc.

This section concurs with what this office has been doing since January 1, 1911, with the exception that the Index to the Current Docket Book must be kept in the same manner as the Judgment Docket Books, as quoted above, which will add materially to the indexing work of the office.

"Within three (3) days after a Summons, Writ, or other Original Process served in an action in the Supreme Court," etc.

Under this section all actions commenced in the Supreme Court, whether a Notice of Issue, or Summons and Complaint, must be filed within three (3) days in the County Clerk's Office. Under the old law litigants could file their Notice of Issue with the Calendar Clerk of the Supreme Court, and need never file any papers affecting the case in the County Clerk's Office. As all such actions must be filed in the County Clerk's office immediately, as above stated, it will increase the work of this office in that department at least 25 per cent.

"Whenever a paper pertaining to any action begun prior to the passage of this Act, is filed in the Office of the Clerk," etc.

The effect of this section of the Act is that in actions now pending, if commenced prior to September 1, 1911, whenever a paper is filed after September 1, 1911, the County Clerk must direct his searchers to go back to the commencement of said action, in many cases covering fourteen different styles of indices, or from fifty to sixty books, and gather together all the papers in said action, reindex them in the current Docket Book, giving the case a number and file all the papers together under said number on one bundle. Many undetermined cases are now pending in this Court, which were commenced as far back as 1896. The usual period for a case pending is from one to five years. The average number of years to be searched by the Searchers of this office will be about four years. Under the Searchers the County Clerk will have to be responsible, upon his bond, to litigants for the correctness and accuracy of the work of the men appointed to do this work.

The statute provides for the appointment of incumbents and the fixing of compensation as follows:

"The County Clerk of New York county shall appoint, subject to the rules of the state civil service commission, such subordinates as may be necessary for the work required to be done in his office under the provisions of this act, and shall designate the positions and fix the compensation of such subordinate, subject to the approval of the board of estimate and apportionment of the city of New York."

The County Clerk states that the request is based on the lowest possible estimate for the additional work.

The following changes in the rates of compensation for three items in the request are reasonable.

	Rates Requested.	Rates Recommended.
Superintendent of Indexing and Recording	$4,500 00	$3,500 00
Docket Comparing Clerks (4)	2,000 00	1,500 00
Searchers (3)	1,800 00	1,500 00

We recommend the adoption of the attached resolution granting the request, with the reduced rates for the three items, as above.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of chapter 290 of the Laws of 1911, hereby approves of positions and rates of compensation in the office of the County Clerk of the County of New York, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Superintendent of Indexing and Recording	$3,500 00	1
Assistant Superintendent of Indexing and Recording	2,500 00	1
Docket Comparing Clerk	1,500 00	4
Searcher	1,500 00	3
Docket Clerk	1,500 00	4
Bookbinder	1,200 00	1
Index Clerk	1,000 00	15
Laborer	720 00	3

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of the City Clerk of the grade of position of Clerk at $3,500 per annum for one incumbent:

(On May 13, 1910, resolution of the Board of Aldermen requesting the establishment of the above grade at $4,000 per annum was referred to said Committee.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 3, 1910, the Board of Aldermen adopted a resolution requesting the establishment of the grade of position of Clerk in the office of the City Clerk, at $4,000 per annum. In connection therewith we report as follows:

The grade is requested for Joseph V. Sculley, in charge of the City Clerk's office in Brooklyn. Mr. Sculley has been in the municipal service thirty-one years. He was appointed in 1873 as a copyist, at $1,000 per annum, in the old City of Brooklyn. In 1882 his compensation was increased to $1,500; in 1891 to $1,750; in 1893, to $2,000; in 1895, to $2,500; and in 1907 to $2,650, the present rate.

The City Clerk states that Mr. Sculley is deserving of promotion for long service, efficiency and experience, and on account of increased work in the office under his supervision.

It seems that establishment for $3,500, or for an increase of $850 per annum, would be reasonable.

We recommend the adoption of the attached resolution approving of the $3,500 grade. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the City Clerk of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Clerk	$3,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, communication from the City Clerk relative to, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of the City Clerk of the position of Clerk in Charge of Permit for Electric Signs at $1,500 per annum for one incumbent:

(On April 20, 1911, the resolution of the Board of Aldermen requesting the establishment of the above position at $1,800 per annum was referred to said Committee.)

In the Board of Aldermen.

Resolved, That the Board of Estimate and Apportionment be and hereby is requested to establish the grade of position of Clerk in Charge of Permits for Electric Signs, in the office of the City Clerk in the Borough of Brooklyn, with compensation at the rate of eighteen hundred dollars ($1,800) per annum.

Adopted by the Board of Aldermen April 11, 1911, a majority of all the members elected voting in favor thereof. P. J. SCULLY, Clerk.

The City of New York, Office of the City Clerk, City Hall, New York, April 19, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Referring to resolution passed by the Board of Aldermen at its stated meeting held on Tuesday, April 11, containing the request to establish the grade of position of Clerk in Charge of Permits for Electric Signs, in the Borough of Brooklyn, I beg to state that Jonas Litt, to whom it refers has been an attachee of that office since January 1, 1908, and during that time has been a very conscientious and industrious clerk, and is worthy of your favorable consideration.

Yours respectfully, P. J. SCULLY, City Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics.

To the Board of Estimate and Apportionment:

Gentlemen—On April 11, 1911, the Board of Aldermen adopted a resolution requesting the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Clerk in Charge of Permits for Electric Signs, at $1,800 per annum, in the office of the City Clerk, in the Borough of Brooklyn. In connection therewith we report as follows:

The grade is requested for Jonas Litt, who was appointed on January, 1, 1908, as a Custodian, at the rate of $1,252 per annum. The City Clerk states that Mr. Litt, in addition to his regular work as Clerk in charge of electric sign permits, keeps the accounts of the office. He also states that the incumbent is highly efficient, and that he is keeping up with steadily increasing work.

It seems that establishment for $1,500, or for an increase of $248 per annum, would be reasonable.

We recommend the adoption of the attached resolution approving the $1,500 grade for one incumbent Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the City Clerk of the position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Clerk in Charge of Permits for Electric Signs...........	$1,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Court of General Sessions requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said Court of the grade of position of Deputy Clerk at $4,000 per annum for one incumbent:

(On June 22, 1911, a communication from the Judges of the Court of General Sessions, requesting the establishment of the above grade, was referred to said Committee.)

Court of General Sessions of the Peace, County of New York, Clerk's Office, June 16, 1911.

Board of Estimate and Apportionment, New York City:

Gentlemen—Under the provisions of chapter 412 of the Laws of 1907, the Judges of the Court of General Sessions were authorized to appoint "not more than eleven Deputy Clerks," and the Comptroller was authorized to pay such Deputy Clerks such salaries "as is now provided by law."

Upon June 28, 1907, the Board of Estimate and Apportionment recommended to the Board of Aldermen that the salary of Deputy Clerks of the Court of General Sessions be fixed at the sum of $4,000 per annum, which recommendation was subsequently approved and adopted by the Board of Aldermen.

Mr. Richard Tone Pettit was, under date of April 6, 1908, transferred from the position of Assistant Special Deputy Clerk of the Supreme Court to the position of Deputy Clerk of the Court of General Sessions, with salary at the rate of $3,000 per annum. At the time of his transfer, he was not eligible to the salary of $4,000 per annum, under the State Civil Service rules, but since has become eligible to receive that rate of compensation. His duties as Deputy Clerk in this court are identical with the duties of all other Deputy Clerks in said court; and it is the desire of the Judges of the Court of General Sessions that his compensation be fixed at the same amount received by the other Deputy Clerks, to wit, $4,000.

Request is, therefore, made upon the Board of Estimate and Apportionment that recommendation be made to the Board of Aldermen for the fixing of the salaries of the Deputy Clerks of this court at $4,000 per annum, for eleven incumbents, and that the salary schedule supporting the appropriation for said court for the year 1911 be modified by eliminating the items "Deputy Clerks, 10 at $4,000—$40,000, Deputy Clerk, $3,000," and substituting in place thereof, "Deputy Clerks, 11 at $4,000—$44,000," thereby reducing the unassigned balance from $2,100 to $1,100. This additional grade and modification of salary schedule will not increase the amount appropriated for the court for the year 1911. Very respectfully yours,

THOMAS C. O'SULLIVAN, JAMES T. MALONE, OTTA A. ROSALSKY, EDWARD SWANN, JOSEPH F. MULQUEEN, Judges of the Court of General Sessions.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 16, 1911, the Judges of the Court of General Sessions requested the establishment of the grade of position of Deputy Clerk at $4,000 per annum, for an additional incumbent. In connection therewith we report as follows:

Chapter 412 of the Laws of 1907 provides that the Judges of the Court of General Sessions may appoint "not more than eleven Deputy Clerks." There are ten Deputies at $4,000 per annum each. The additional grade is proposed for Richard Tone Pettit, who was transferred on April 6, 1908, from the position of Assistant Deputy Clerk of the Supreme Court to the position of Deputy Clerk of the Court of General Sessions, at the rate of $3,000 per annum. Mr. Pettit was not then eligible under the State Civil Service Rules for the $4,000 rate. He has become eligible and it is therefore proposed to promote him to the grade. His duties are similar to those of the other Deputy Clerks of the Court. The funds for the increase are available in an unassigned balance.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Court of General Sessions of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Deputy Clerk	$4,000 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Brooklyn Disciplinary Training School for Boys requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said school of the grade of position of Investigator at $900 per annum, for one incumbent:

(On June 22, 1911, the request of the Superintendent of the Brooklyn Disciplinary Training School for the establishment of the above grade was referred to said committee.)

The Brooklyn Disciplinary Training School for Boys, Superintendent's Office, 18th Avenue between 56th and 58th Streets, Borough of Brooklyn, N. Y., June 17, 1911.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment,* 277 Broadway, New York City:

Dear Sir—At a regular meeting of the Board of Managers of this institution, held on June 6, 1911, it was unanimously agreed to increase the salary of our Investigator from $720 per annum to $900 per annum. I respectfully petition your honorable Board of Estimate and Apportionment to change our Budget Schedule No. 1298 under the title of Salaries and Wages, by abolishing the position of Cleaner at $180 per annum and transferring that sum to the position of Investigator, thus making the salary of Investigator $900 per annum. I also request that the said position be established in accordance with the provisions of section 56 of the Greater New York Charter.

This increase has been allowed for meritorious services and also for the reason that the salary is entirely too low for the services performed and is not in proportion to the salaries paid for similar work in other institutions.

Trusting this petition will meet with the approval of your honorable Board, I beg to remain. Yours very respectfully,

ROSCOE V. WOLFE, Superintendent.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 17, 1911, the Superintendent of the Brooklyn Disciplinary Training School for Boys requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter of the grade of position of Investigator, at $900 per annum.

The new grade is for the purpose of increasing the compensation of Ludwig Antonius $180 per annum, the necessary funds to be supplied by the elimination of the position of Cleaner at the same rate. The Superintendent states that Mr. Antonius' services merit the increase. His work is similar to that of Truant Officers in the Department of Education at from $900 to $1,500 per annum, according to length of service.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Brooklyn Disciplinary Training School for Boys, of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Investigator	$900 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending that the communications from the New York Per Diem Men's Civil Service Association and the New York Civil Service Association relative to equalizing the wages of Park Department Foremen in the Boroughs of Brooklyn and Queens, be referred to the Commissioner of Parks, Boroughs of Brooklyn and Queens, for such action as he may deem necessary and proper, as the matter is one for departmental administration.

Which was referred to the Commissioner of Parks for the Boroughs of Brooklyn and Queens, and the Secretary directed to transmit copies thereof to the above-named associations.

(On February 9 and 23, and May 4, 1911, the above communications were referred to said committee.)

The Secretary presented a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, refrring to a resolution of the Board of Aldermen requesting the establishment of the grades of positions of Gardener-in-charge at $115 a month and Gardener at $90 a month, in all boroughs, the compensation to be paid semi-monthly, also to a communication from William Dilm, Secretary of a Special Committee of Gardeners of Greater New York, and suggesting that they be referred to the Commissioners of Parks for such action as they may deem necessary and proper.

Which was referred to the Commissioners of Parks of the different boroughs and the Secretary directed to transmit a copy thereof to William Dilm, Secretary, etc.

(On June 15, 1911, the resolution of the Board of Aldermen, as above, was referred to the said committee.)

The Secretary presented the following report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, returning requests from various departments for the establishment of positions and grades of positions with the recommendation that they be not approved for the reason that the information furnished the committee does not seem to justify the granting of the requests:

Which was ordered filed, and the Secretary directed to notify the departments interested.

(At various meetings of the Board these matters were referred to said committee.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We return herewith the following requests for the establishment of new positions and grades with the recommendation that they be not approved, for the reason that information furnished to the committee does not seem to justify the establishment of the positions or grades requested:

Date of Reference, Board of Estimate and Apportionment Meeting.	Department.	Position.	
June 22, 1911	Education	Deputy Superintendent of School Supplies	$2,200 00
		Clerk	3,500 00
		Examiner	3,500 00
June 15, 1911	Parks, Manhattan and Richmond	Architect	3,600 00
Apr. 13, 1911	President, Brooklyn	Inspector of Sewer Construction, per diem.	5 00
June 22, 1911	Street Cleaning	Stenographer	2,000 00
June 22, 1911	Communication from Blacksmiths' Helpers' Union of New York City and Vicinity, requesting that the compensation of Blacksmiths' Helpers in all City departments be increased from $3 to $3.50 a day.		

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The Secretary presented the following report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, returning applications from various departments, etc., for the establishment of positions and grades, and recommending that they be returned to the various heads of departments, etc., to be included in the departmental estimates for 1912:

In accordance with the recommendations contained in the report, the Secretary was directed to return the applications to the departments interested.

(At various meetings of the Board these matters were referred to said Committee.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith the following applications for the establishment of grades or positions, or both, and recommend that they be returned to the various department heads to be included in the departmental estimates for 1912:

Date of Reference, Board of Estimate and Apportionment Meeting.	Department.	Position.
April 27, 1911............	City Court of N. Y.......	Communication from Joseph Rollins, requesting equalization of salaries of Interpreters so that they may receive $2,500 instead of $2,000.
Mar. 2, 1911............	City Court of N. Y.......	Resolution adopted by Justices of the City Court, requesting fixation of salary of position of Attendant at $1,800 per annum.
June 15, 1911............	City Court of N. Y.......	Communication from Frank Connes, Interpreter, City Court, requesting that his salary be increased from $2,000 to $3,000 per annum, or such amount as the Board of Estimate may deem proper.
June 15, 1911............	City Magistrates' Courts, Second Division	Stenographer $2,500 00
June 8, 1911............	Coroners, Richmond	Clerk 2,000 00
June 15, 1911............	Coroners, Manhattan	Asst. Clerk ...... 2,100 00 Asst. Clerk 1,700 00
May 11, 1911............	District Attorney, Richmond	Chief Clerk 1,200 00
June 8, 1911............	Dock and Ferries.........	Petitions from: Deckhands, requesting increase in compensation from $66 to 75 per mo. Women Cleaners, requesting increase in compensation from $1.45 to $1.75 a day. Bridgemen, requesting increase in compensation from $66 to $75 per mo. Mates, requesting increase in compensation from $75 to $95 per month.
June 15, 1911............	Docks and Ferries.........	Communication from Secretary, Department of Docks and Ferries, protesting against payment of $3.50 per diem to Stokers and Oilers in the Bureau of Ferries.
Mar. 2, 1911............	Education	Chief of Electrical Bureau $3,500 00
June 1, 1911............	New York Nautical School	Steward .... 1,020 00 Ship's Cook ..... 720 00 Asst. Ship's Cook 360 00
Mar. 30, 1911............	Commissioner of Licenses.	Law and Complaint Clerk 2,500 00

Date of Reference, Board of Estimate and Apportionment Meeting.	Department.	Position.	
Sept. 23 and 30, 1911......	Municipal Civil Service Commission	Chief Examiner .	5,000 00
		Asst. Chief Examiner	4,000 00
		Engineer Examiner	2,700 00
		Examiner	2,100 00
		Examiner	1,800 00
		Clerk	1,650 00
		Monitor	1,050 00
		Monitor, per diem	5 00
		Monitor, per diem	3 50
		Monitor, per diem	3 00
		Monitor, per diem	2 50
		Experts, per diem	10 00
May 18, 1911............	Parks, Bronx	Clerk	1,350 00
		Clerk	1,050 00
		Clerk	600 00
June 22, 1911............	President, Queens	Messenger	1,200 00
June 22, 1911............	Court Special Sessions ...	Court Attendant..	1,500 00

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President of the Board of Aldermen; Select Committee.

The Secretary presented the following communication from the Board of Assessors requesting, and report to Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment of grades of position of Clerk at $2,250 for four incumbents and of Stenographer at $1,800 for one incumbent, in said office:

Office, Board of Assessors, 320 Broadway, New York, June 20, 1911.

Hon. W. J. Gaynor, *Chairman, Board of Estimate and Apportionment,* 277 Broadway, New York City:

Sir—The Board of Assessors respectfully requests the establishment in the office of the Board of Assessors of the following grades of positions:

	Incumbents.
Clerk, at $2,250 per annum	4
Stenographer, at $1,800 per annum	1

The three Clerks it is proposed to promote to the $2,250 per annum grade are James M. Clancy, Thomas J. Higgins, and Hiram A. Faron.

Mr. Clancy was appointed 1898; his present salary is $2,100 per annum. He has charge of all claims for damages alleged to have been caused by a change in the grade of streets in all boroughs. The Board feels that his position (the office title of which is "Change of Grade Clerk") is one of responsibility.

Mr. Higgins was appointed 1899; his present salary is $1,950 per annum. After the area of assessment, rates, etc., have been determined by the Board of Assessors, Mr. Higgins has supervision of all assessments in Manhattan, Brooklyn and The Bronx. He is called on to explain to owners and attorneys much detail in connection with individual assessments.

Mr. Faron was appointed 1898; his present salary is $1,950 per annum. He has charge of all Richmond and Queens assessment lists after the area, rates, etc. have been determined by the Board of Assessors. He is called on to explain to owners and attorneys much detail in connection with the individual assessments.

The two clerks it is proposed to promote to the $2,100 per annum grade are William M. Bostwick and Ernest Spitzer.

Mr. Bostwick was appointed in 1894; his present salary is $1,950 per annum. He is a computer of assessments. His long experience and acquaintance with assessment matters generally make him a most useful man in the office.

Mr. Spitzer was appointed in 1901; his present salary is $1,950 per annum. He has charge of the records, financial accounts and statistics of the office. Also all advertising of assessment lists. In addition he is qualified as a Stenographer and Typewriter and is frequently called on to do stenographic work in the office, taking the place of the regular stenographer in vacation time and at such times as one Stenographer is unable to keep his work up to date.

Arthur H. Parry, the Stenographer was transferred to this office from the Board of Water Supply in 1906; his salary at present is $1,650 per annum. The office of the Board of Assessors prior to February, 1910, had a Stenographer at a salary of $2,250 per annum. whose duties consisted of the taking of testimony and keeping of papers in connection with claims for damages brought under special acts of the Legislature. Since the resignation of the above Stenographer, Mr. Parry has taken all testimony submitted in these special matters. The position of Stenographer at $2,250 per annum was stricken from the Budget for 1911.

The Board in requesting the establishment of the above grades of positions would most respectfully call the attention of your Board to the present condition of the office, compared with its condition at any time, between January 1, 1898 and January 1, 1910. Without going into details, it may be said the records show from the years 1900 to 1909, inclusive, the average amount of unapportioned assessment lists, totaled $3,121,000 annually. Interest on this sum or the use of this sum by the Street Improvement Fund was absolutely lost to the City.

On June 9, 1911, there was in the office of the Board of Assessors, less than $100,000 of unapportioned assessment lists (14) all of which were regulating and grading lists affected by claims for damages.

The Board of Assessors fells that all of the above promotions requested are well merited and most respectfully ask favorable consideration by your honorable body. Respectfully submitted, THOMAS J. DRENNAN, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Assessors requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the following grades of positions:

Title.	Rate Per Annum.	Number of Incumbents.
Clerk	$2,250 00	4
Stenographer	1,800 00	1

In connection therewith we report as follows:

The $2,250 grade of Clerk is proposed to increase the compensation of James M. Clancy, Thomas J. Higgins and Hiram A. Faron and Ernest Spitzer.

Mr. Clancy was appointed in 1898, and is at $2,100 per annum. He has charge of all claims for damages alleged to have been caused by a change in the grade of streets in all Boroughs. The Board states that his position is one of responsibility, and that his work merits the increase.

Mr. Higgins was appointed in 1899, and is at $1,950 per annum. After the area of assessment, rates, etc., have been determined by the Board of Assessors, Mr. Higgins has supervision of all assessments in Manhattan, Brooklyn and The Bronx. He is called on to explain to owners and attorneys detail in connection with individual assessments.

Mr. Faron was appointed in 1898, and is at $1,950 per annum. He has charge of all Richmond and Queens assessment lists after the area, rates, etc., have been determined by the Board of Assessors. He is called on to explain to owners and attorneys detail in connection with the individual assessments.

Mr. Spitzer was appointed in 1901, and is at $1,950 per annum. He has charge of the records, financial accounts and statistics of the office; and also of all advertising of assessment lists. In addition he is qualified as a Stenographer and Typewriter and is frequently called on to do stenographic work.

The $1,800 grade of Stenographer is proposed to increase Arthur H. Parry, at $1,650 per annum. Mr. Parry was transferred from the Board of Water Supply in 1906. The office of the Board of Assessors, prior to February, 1910, had a Stenographer at $2,250 per annum, whose duties consisted of the taking of testimony and keeping of papers in connection with claims for damages brought under special acts of the Legislature. Since the resignation of the above Stenographer, Mr. Parry has taken all testimony submitted in these special matters. The position of Stenographer at $2,250 per annum was stricken from the Budget for 1911.

The Board of Assessors states the following:

"In requesting the establishment of the above grades of positions we would most respectfully call the attention of your Board to the present condition of the office compared with its condition at any time between January 1, 1898, and January 1, 1910, Without going into details, it may be said the records show from the years 1900 to 1909, inclusive, the average amount of unappropriated assessment lists totaled $3,121,000 annually. Interest on this sum or use of this sum by the Street Improvement Fund was absolutely lost to the City.

"On June 9, 1911, there was in the office of the Board of Assessors less than $100,000 of unapportioned assessment lists, all of which were regulating and grading lists affected by claims for damages.

"The Board of Assessors feels that all of the above promotions requested are well merited and most respectfully ask favorable consideration by your honorable body."

The Secretary states that the request for Stenographer, at $1,800, should be for Stenographer and Typewriter at the same rate. The latter title is in conformity with the rules of the Municipal Civil Service Commission.

We recommend the adoption of the attached resolution approving of the request as noted above. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the Board of Assessors of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Clerk	$2,250 00	4
Stenographer and Typewriter	1,800 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, returning for filing the request of the Commissioner of Docks for the establishment of grade of position of Assistant Superintendent of Ferries at $3,600, said request having been verbally withdrawn by the Commissioner of Docks.

Which was ordered filed and the Secretary directed to return the request to the Department of Docks and Ferries.

The Secretary presented a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, returning, for filing the request of the Commissioner of Docks for the establishment of two rates of pay for Painters and Letterers, viz., $4 and $4.50 per diem, said request having been verbally withdrawn by the Commissioner of Docks.

Which was ordered filed and the Secretary directed to return the request to the Department of Docks and Ferries.

The Secretary presented the following resolutions of the Board of Aldermen, requesting, and report of Comptroller recommending, issues of special revenue bonds as follows: $375 for the purpose of paying the salary of a Nurse in the Cumberland Street Hospital, Brooklyn, and $750 for paying salaries of two Trained Nurses in Metropolitan Hospital, Blackwells Island, at the rate of $750 per annum, each, from July 1 to December 31, 1911, Department of Public Charities, and approval of schedule for said funds.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three hundred and seventy-five dollars ($375), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salary of Nurse, at Cumberland Street Hospital, Brooklyn, from July 1, 1911.

Adopted by the Board of Aldermen, June 20, 1911, three-fourths of all the members, voting in favor thereof.

Approved by the Mayor, June 27, 1911. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of seven hundred and fifty dollars ($750), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries of two Trained Nurses, at the rate of $750 each per annum, from July 1 to December 31, 1911.

Adopted by the Board of Aldermen, June 13, 1911, three-fourths of all the members, voting in favor thereof.

Received from his Honor the Mayor, June 27, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13 and June 20, 1911, the Board of Aldermen adopted resolutions requesting the issue of special revenue bonds in the sums of $750 and $375, respectively, the proceeds to be used by the Department of Charities to pay the salaries of three Trained Nurses for the six months beginning July 1, 1911, at the rate of $750 per annum. In connection therewith I report as follows:

The Commissioner states that the Nurses are to be employed in social service work, visiting the homes of patients who have left the Department institutions, for the purpose of supplementing the medical treatment they have received. A similar service is maintained with satisfactory results at Harlem and Gouverneur Hospitals. Of the three additional Nurses, one is for the Cumberland Street Hospital, Brooklyn, and two for the Metropolitan Hospital, Blackwells Island.

I recommend the adoption of the attached resolutions granting the requests and approving schedule for the funds. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, and approved by the Mayor June 27, 1911, requesting an issue of special revenue bonds in the sum of three hundred and seventy-five dollars ($375), the proceeds whereof to be used by the Department of Public Charities for the payment of the salary of a Trained Nurse, at the Cumberland Street Hospital, Borough of Brooklyn, for the six months beginning July 1, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three hundred and seventy-five dollars ($375), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 13, 1911, requesting an issue of special revenue bonds in the sum of seven hundred and fifty dollars ($750), the proceeds whereof to be used by the Department of Public Charities for the payment of the salaries of two Trained Nurses at Metropolitan Hospital, Blackwells Island, for the six months beginning July 1, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding seven hundred and fifty dollars ($750), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedule for employees of the Department of Public Charities paid from special revenue bonds for the year 1911, as follows:

Department of Public Charities.

Institutions, Manhattan and The Bronx, Metropolitan Hospital—

Wages, Regular Employees, Special Revenue Bond Force:

Trained Nurses, 2 at, per annum	$750 00

Institutions, Brooklyn and Queens, Cumberland Street Hospital—

Wages, Regular Employees, Special Revenue Bond Force:

Trained Nurse, 1 at, per annum	$750 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of $7,500 special revenue bonds (subdivision 8, section 188 of the Charter), for the purchase of two automobiles for the Department of Bridges:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of seven thousand five hundred dollars ($7,500), the proceeds whereof to be used by the Department of Bridges for the purpose of purchasing two automobiles.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of $7,500 to provide for the purchase of two automobiles for the Department of Bridges. In connection therewith, I report as follows:

The Commissioner states that there are five automobiles in the Department. Four have been in service for five years, and the other for three years. As a result, the Commissioner states that all the machines are so worn that repairs cost an "almost prohibitive sum." He therefore proposes to purchase two new high-grade machines as soon as the requested appropriation is available.

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds in the sum of seven thousand five hundred dollars ($7,500), the proceeds whereof to be used by the Department of Bridges for the purpose of purchasing two automobiles, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding seven thousand five hundred dollars ($7,500), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller, certifying three claims of Thomas Dwyer, pursuant to section 246 of the Charter, in the sum of $33,603.81, for labor and material furnished in and about the College of The City of New York:

City of New York, Department of Finance, Comptroller's Office, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Under and pursuant to the provisions of section 246 of the Charter I hereby certify that three claims have been presented by Thomas Dwyer for $42,560.55; $4,659.55 and for various items of interest, alleged to be due for labor and material furnished in and about the College of The City of New York; that such claims, according to the opinion of Acting Corporation Counsel G. L. Sterling, are illegal and invalid as against TheCity of New York, but, notwithstanding, in my judgment, it is equitable and proper for the City to pay a portion of said claims, inasmuch as the City has received value for the same; and that $33,603.81 is the amount which should be paid in full satisfaction thereof. Respectfully,

WM. A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, July 3, 1911.

In the matter of Claims 58,614, 58,615 and 58,617 of Thomas Dwyer for various amounts alleged to be due for work at the College of The City of New York.

Hon. WILLIAM A. PRENDERGAST, *Comptroller:*

Sir—Thomas Dwyer has presented three claims for various amounts for work in and about the College of The City of New York at St. Nicholas terrace, 140th street, Amsterdam avenue and 138th street, in the Borough of Manhattan.

Claim No. 58,614 *for* $42,560.55.*

The first item of this claim is for $5,791.94 with interest from December 17, 1907, a balance alleged to be due under the first modification of a contract dated March 11, 1904, for mason, steel, iron, roofing, carpenter and electric work, known as Nos. 9,885 and 14,204, the modification bearing date the 4th of May, 1905.

The second item of this claim is for $5,741.94 with interest thereon from September 12, 1907, alleged to be due on the second modification of said contract, said modification bearing date May 4, 1905.

The third item is for $158.69 with interest from September 11, 1907, alleged to be due on the third modification of said contract, said modification bearing date July 18, 1905.

The fourth item is for $2,501.71 with interest thereon from December 17, 1907, alleged to be due on the fifth modification of said contract, said modification bearing date November 1, 1905.

The fifth item is for $3,015.69 with interest from December 16, 1907, the alleged value of certain extra labor performed and materials furnished.

The sixth item is for $4,474.13 with interest thereon from September 11, 1907, alleged to be due on a contract dated May 12, 1905, for labor and materials furnished for the erection of an additional story to the Chemical Building of the College of The City of New York.

The seventh item is for $845.29 with interest from April 16, 1908, alleged to be due upon the first modification of a contract for furnishing marble, mason, steel, iron, roofing, carpenter and electrical work for the building of said College, the said contract, dated May 10, 1905, was numbered 12,737 and 14,203, and known as the second contract, the modification bearing date July 18, 1905.

The eighth item is for $6,356.60 with interest from January 19, 1908, alleged to be due on the second modification of said second contract, said modification bearing date November 1, 1905.

---

*Should be $42,460.55.

The ninth item is for $926.80 with interest from June 20, 1908, alleged to be due on the third modification of the second contract, said modification bearing date July 14, 1906.

The tenth item is for $288 with interest from January 21, 1908, alleged to be due under the fourth modification of the second contract, said modification bearing date November 17, 1906.

The eleventh item is for $901.20 with interest from June 20, 1908, alleged to be due under the fifth modification of the second contract, said modification bearing date the 10th of July, 1907.

The twelfth item is for $313.26 with interest from April 24, 1908, alleged to be due under the sixth modification of the second contract, said modification bearing date July 30, 1907.

The thirteenth item is for $11,145.30 with interest from June 22, 1908, alleged to be due for labor and material furnished in addition to the second contract and the various modifications thereof.

Claim No. 58,615 *for* $4,659.55.

The items of this claim are stated to be as follows:

1. Sweeping and cleaning floors, walls, dusting and moving furniture, moving cases and boxes and furnishing necessary equipment therefor, etc., at the buildings of the College of The City of New York from October 4, 1906, to February 25, 1907, for which itemized bills were submitted on April 1, 1907, to the Board of Trustees of the College of The City of New York	$3,644 30
2. For furnishing material and performing labor for the erection of certain partitions at said buildings	*72 25
3. For furnishing material and performing labor in erecting an inclined platform on the Convent avenue entrance of the main building of the College of The City of New York and platform, steps and rail in gymnasium	170 00
4. For furnishing material and performing labor in the erection of certain shelving for the buildings of the College of The City of New York	125 00
	$4,659 55

Also interest on said sums from the time when they respectively became due, viz.: $3,644.30 from February 25, 1907; $720.25 from January 20, 1906; on $170 from October 10, 1906, and on $125 from October 10, 1906.

Claim No. 58,617 *for Interest.*

This claim is for interest on various amounts stated as follows:

1. Interest at the rate of 6 per cent. per annum on the sum of $109,834 from June 22, 1908, to January 29, 1909, said sum being an amount earned by and payable to me under my contract with The City of New York by the Board of Trustees of the College of The City of New York for marble, mason, steel, iron, roofing, carpenter and electric work for the buildings of the College of The City of New York, St. Nicholas terrace, 140th street, Amsterdam avenue and 138th street, Borough of Manhattan, City of New York, said contract being known and designated as the second contract dated May 10, 1905, for the sum of $880,660, and numbered 12,737 and 14,203, said sum of $109,834 being the sum earned by and payable to me under the aforesaid contract and wrongfully retained by The City of New York between said dates aforesaid.

2. And also interest at the rate of 6 per cent. per annum on the sum of $139,769 from January 29, 1909, to April 23, 1909, said sum being the sum earned by and payable to me under the aforesaid contract and wrongfully retained by The City of New York between said dates aforesaid.

3. Also interest at the rate of 6 per cent. on the sum of $20,000 from April 23, 1909, to June 14, 1909, said sum being the sum earned by and payable to me under the aforesaid contract and wrongfully retained by The City of New York between said dates aforesaid.

An action having been instituted for the recovery of the amounts claimed the papers in the case were transmitted to the Corporation Counsel for his information in conducting the defense.

In reference thereto a communication, dated June 30, 1911, was addressed to you by Acting Corporation Counsel G. L. Sterling. It was stated therein in part: "The plaintiff, Thomas Dwyer, entered into two contracts with The City of New York for the erection of buildings for the City College. The first contract was dated

---

*Should be $720.25.

March 11, 1904, and the second May 10, 1905. The contract dated March 11, 1904, was for the furnishing of all material and performing all work necessary or proper for completing the mason, steel, iron roofing and electric work of the buildings of the College of The City of New York, according to the plans and specifications, and the contract let on May 10, 1905, known as the 'second contract,' provided for additional mason, iron and marble work, carpenter work, elevators, electric and other work for the buildings of the College of The City of New York. The estimated cost of the first contract was $1,625,000, and the estimated cost of the second contract was $880,660. After the contractor entered upon the performance of his work, it was found necessary from time to time to modify and supplement the original contracts, and, to that end, the Trustees of the City College entered into several supplemental or modifid contracts, eliminating certain work and adding other work. The claim of plaintiff is divided into twenty-one items, as follows:

Complaint.			
No. 5	1.	Balance on the original contract due but unpaid............	$1,700 44
No. 7	2.	Balance due on the first modification of Contract No. 1....	5,791 94
No. 8	3.	Balance due on second modification of Contract No. 1......	5,741 94
No. 9	4.	Balance due on third modification of Contract No. 1........	158 69
No. 10	5.	Balance due on fourth modification of Contract No. 1......	2,501 71
No. 12	6.	Balance due on sixth modification of Contract No. 1......	4,474 13
No. 18	7.	Balance due on first modification of Contract No. 2........	845 29
No. 19	8.	Balance due on second modification of Contract No. 2......	6,356 60
No. 20	9.	Balance due on third modification of Contract No. 2......	†2,926 80
No. 21	10.	Balance due on fourth modification of Contract No. 2......	288 00
No. 22	11.	Balance due on fifth modification of Contract No. 2......	901 20
No. 23	12.	Balance due on sixth modification of Contract No. 2......	313 26
No. 6	13.	Interest on $232,000 from Dec. 12, 1907, to Feb. 25, 1908..	2,668 00
No. 66	14.	Interest on $32,000 from Feb. 25, 1908, to May 15, 1909....	2,346 67
No. 6	15.	Interest on $10,000 from Jan. 29, 1909, to May 15, 1909......	178 33
No. 6	16.	Interest on this interest to date.	
No. 11	17.	Extra work on oral orders under first contract............	3,015 69
No. 24	18.	Extra work on oral orders under second contract..........	11,176 70
No. 27	19.	Unpaid balance on sweeping contract (written order by President Finley), consisting of the furnishing of brooms, pans, etc., and performing the work of sweeping the buildings of the College of The City of New York......	3,644 30
No. 30	20.	Extra work, consisting of the erection of certain partitions in the sub-freshman building at the College of The City of New York	720 25
No. 33	21.	Extra work, consisting of the installation of certain shelving in the buildings of the College of The City of New York and the furnishing of certain platforms...............	295 00

In each case where the original contracts were modified or supplemented by additional contracts, it was at the instance of the Board of Trustees of the City College, which board was of the opinion that it was necessary, in order to properly carry out the contracts, to have certain additional work performed and certain work called for by the contracts eliminated. The architect attempted to agree with the contractor on the amounts which should be allowed the City for the work eliminated and which should be charged for the additional or extra work found necessary. After the contracts were completed, a question arose as to the authority of the Board of Trustees to make the modified contracts, and also whether or not the work performed and materials furnished were of the value claimed. The architects made an examination of the value of the materials furnished and work performed under the supplemental and modified agreements, and reported that the fair and reasonable value of same, including an item of $1,700.44 due on original Contract No. 1, is $30,000. Since that time, however, they have gone over the matter a second time and checked up the cost data, and have decided that there was an error in the first statement, and that the value of the work and materials is $26,100. Certain other work was performed and materials furnished under oral orders and the amount claimed for this item is $18,820.04. After an examination by the architects of the work performed under all oral orders, they state that an allowance of $5,569.95 would be fair. In addition to these items, it appears that the contractor, at the request of the President of the City College and in pursuance of written orders issued by him, kept the College buildings swept and cleaned for a period of about one year, and the amount claimed for this work is $3,644.30, and it was agreed that an allowance of $3,644.30 should be made therefor. A balance of $1,700.44, due on original Contract No. 1, was never paid, although admittedly due, and that amount with interest thereon the architects report should be allowed, amounting in all to $1,896.19, of which amount the principal $1,700.44 is included in the allowance of $26,100. I am informed that a list of items allowed by the architects, at what they consider the fair and reasonable value of the work performed, including the amount due for sweeping and the amount due on original contract which was withheld and which should have been paid, is as follows:

---

†Should be $926.80.

Balance due on original Contract No. 1	$1,700 44
Interest due thereon	195 75
Balance due on modified and supplemental contracts	24,399 56
Balance due for sweeping and cleaning City College	3,644 30
Extra work due for partitions in sub-freshmen's room and shelving, etc.	1,015 00
Amount due for work performed on verbal orders for which a claim of $14,192.39 was made	4,544 95
Total	$35,500 00

The oral contracts or orders and the alleged contract made for the work of sweeping, which work was performed on the written order of the President of the College, were not properly made and are not a legal charge against the City. The work ordered on supplemental and modified agreements eliminating certain work called for by the original contracts and adding other work, was, in my opinion, not properly contracted for. In all these cases, however, it is admitted by the Trustees of the City College, the architects, and your office that the work and materials claimed to have been performed and furnished were performed and furnished, and that the contractors should be paid the fair and reasonable value therefor. Under the circumstances, these items would necessarily have to be paid under section 246 of the Charter. The item of $1,700.44, which is due under original Contract No. 1, was contracted for in compliance with the provisions of the Charter, and that amount, plus interest, making in all $1,896.19, should be paid as a legal claim. Under the circumstances, I advise that the entire claim be adjusted at what you believe to be the fair and reasonable value, and I understand that the contractor will accept in full payment the sum of $35,500, without interest or costs, and that your office is of the opinion that an adjustment of the entire claim at that sum would be proper, and that the City would be paying only the fair and reasnoable value for all the work performed.

Under date of June 5, 1911, a report was made upon these claims by Chandler Withington, Principal Assistant Engineer, employed in this Department, in which he made the following recommendation: "Considering the claim as presented, irrespective of the legal questions, I estimate that $35,500 would be a fair and reasonable settlement for all the claims. This figure is based on the following calculation:

Balance on Contract No. 1	$1,700 44
Balance on modification of Contracts Nos. 1 and 2.	24,399 56
Balance on sweeping	3,644 30
Extra work, partitions on sub-freshmen's building	720 00
Extra work, shelving	295 00
Extra work (verbal orders) under No. 1 and No. 2 Contracts	4,544 95
Interest on $1,700.44 from Nov. 6, 1909, to June 15, 1911	195 75
	$35,500 00

From the investigations that have been made and from the above-mentioned opinion of the Acting Corporation Counsel, it appears that the following allowances should be made to this claimant in accordance with the provisions of section 246 of the Charter:

Balance on modification of first and second contracts	$24,399 56
Balance on sweeping	3,644 30
Extra work, partitions on sub-freshmen's building	720 00
Extra work, shelving	295 00
Extra work, under first and second contracts	4,544 95
	$33,603 81

It is, therefore, respectfully recommended that the certificate prescribed in said section 246 of the Charter be issued in favor of Thomas Dwyer in the sum of $33,603.81 in full payment of the above-mentioned claims Nos. 58,614, 58,615 and 58,617.

Respectfully, JAS. L. HANCE, Auditor of Accounts.

Approved: Albert S. Hadlock, Chief, Division of Law and Adjustment.

Approved July 5, 1911: Wm. A. Prendergast, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to section 246 of the Charter, the Board of Estimate and Apportionment hereby determines that the City has received a benefit from Thomas Dwyer and is justly and equitably obligated to pay to him, without interest, the sum of $33,603.81 for labor and material furnished in and about the College of the City of New York; that the said sum shall be paid in full satisfaction of three claims which have been presented by him for $42,560.55, for $4,659.55, and for various items of interest alleged to be due for such labor and material, and shall be paid only upon the execution by said Thomas Dwyer of a full release in favor of the City in such form as shall be approved by the Corporation Counsel, and also upon the discontinuance of the action which has been instituted for a recovery of the amounts claimed, and that the Comptroller is hereby authorized to pay the said sum of $33,603.81 out of the Bond Account "College of the City of New York, New Site and Buildings."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller certifying, pursuant to section 246 of the Charter, the claims of Andrew J. Maguire for $250, salary as Supervisor of Janitors in the Department of Education for the month of July, 1910, and of John S. Bannon, Frank T. Bergan and Thomas H. Dibbins, for salary as Assistant Supervisors of Janitors for the months of May and July, 1910, in the sum of $416.66 each:

City of New York, Department of Finance, Comptroller's Office, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Under and pursuant to the provisions of section 246 of the Charter, I hereby certify that claims have been presented by Andrew J. Maguire, as Supervisor of Janitors in the Department of Education, for $250, alleged to be due him as salary for the month of July, 1910, and by John S. Bannon, Frank T. Bergan and Thomas H. Dibbins, as Assistant Supervisors of Janitors, for $416.66, alleged to be due to each of them as salary for the months of May and July, 1910; that such claims, according to the opinion of Acting Corporation Counsel G. L. Sterling, are illegal and invalid as against The City of New York, but, notwithstanding, in my judgment, it is equitable and proper for the City to pay said claims, inasmuch as the City has received value for the same, and that the amounts which should be paid are as follows:

Andrew J. Maguire, Supervisor of Janitors, July, 1910..................	$250 00
John S. Bannon, Assistant Supervisor of Janitors, May and July, 1910..	416 66
Frank T. Bergan, Assistant Supervisor of Janitors, May and July, 1910..	416 66
Thomas H. Dibbins, Assistant Supervisor of Janitors, May and July, 1910	416 66

Respectfully, WM. A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, July 3, 1911.

In the matter of the applications made by Andrew J. Maguire, John S. Bannon, Frank T. Bergan and Thomas H. Dibbins for the adjustment by the Board of Estimate and Apportionment, under section 246 of the Charter, of their claims for various amounts alleged to be due them as Supervisor and Assistant Supervisors of Janitors in the Department of Education.

Hon. William A. Prendergast, *Comptroller:*

Sir—Under date of May 25, 1911, a report was made by me upon these applications. In accordance with the recommendation therein contained the papers in reference thereto were transmitted to the Corporation Counsel with a rquest for his opinion as to whether or not the claims were a proper subject for certification to the Board of Estimate and Apportionment for adjustment under section 246 of the Charter.

In reply to such request, a communication dated July 1, 1911, was addressed to you by Acting Corporation Counsel G. L. Sterling, in which he stated in part: "I think that section 246 was designed to meet such cases as these under discussion. It distinctly empowers the Board of Estimate and Apportionment to authorize by a unanimous vote the payment of claims based upon justice when the City has received a benefit for which it is under no legal obligation to pay. In the cases of Messrs. Maguire, Bergan, Bannon and Dibbins we find that they were appointed to their respective positions, that they rendered services, but that they were not paid because the public authorities failed legally to fix their compensation. Such a state of facts places the City under a moral obligation to pay even if it is not legally obligated. The only claims, as I read the statute, which may not be allowed, are those which are barred by lapse of time and those which arise out of appointments violating the Civil Service Law. Since the salaries sought by the four applicants are not outlawed, and since each applicant was legally appointed, their claims are not prohibited by the two inhibitions of the statute. Indeed, the very provision which excludes from the benefits of the statute those claims based upon appointments which contravene the Civil Service Law, seems implicitly to authorize the settlement of those based upon appointments which accord with it. The constitutionality of the statute was recently upheld by the Appellate Division, Second Department, in the case of Dady vs. Prendergast, and I am, therefore, aware of no reason preventing you from certifying to the Board of Estimate and Apportionment the claims which have been filed with you for that purpose."

It would appear from the opinion of the Acting Corporation Counsel that these claimants are entitled to the equitable adjustment of their claims. It is, therefore, respectfully recommended that your certificate be issued, as prescribed in section 246 of the Charter, in favor of these claimants in the following amounts:

Andrew J. Maguire, Supervisor of Janitors, July, 1910, $250.
John S. Bannon, Assistant Supervisor of Janitors, May and July, 1910, $416.66.
Frank T. Bergan, Assistant Supervisor of Janitors, May and July, 1910, $416.66.
Thomas H. Dibbins, Assistant Supervisor of Janitors, May and July, 1910, $416.66.

Respectfully, JOS. L. HANCE, Auditor of Accounts.

Approved, July 3, 1911: ALBERT E. HADLOCK, Chief of the Division of Law and Adjustment.

Approved, July 5, 1911: WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to section 246 of the Charter, the Board of Estimate and Apportionment hereby determines that the City has received a benefit from Andrew J. Maguire, Supervisor of Janitors in the Department of Education, and from John S. Bannon, Frank T. Bergan and Thomas H. Dibbins, Assistant Supervisors of Janitors in the said Department, and is justly and equitably obligated to pay them for their services, without interest, the amounts and for the periods stated below, namely:

Andrew J. Maguire, Supervisor of Janitors; July, 1910	$250 00
John S. Bannon, Asst. Supervisor of Janitors; May and July, 1910	416 66
Frank T. Bergan, Asst. Supervisor of Janitors; May and July, 1910	416 66
Thomas H. Dibbins, Asst. Supervisor of Janitors; May and July, 1910	416 66

—that the said sums shall be paid them in full satisfaction of the claims which they have presented for such services and shall be paid only upon the execution by each of them of a full release in favor of the City in such form as shall be approved by the Corporation Counsel, and that the Comptroller is hereby authorized to pay the said sums out of the Revenue Bond Fund for Claims, Back Salaries R-C1-3.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a communication from the Flatbush Board of Trade of Brooklyn, protesting the erection in City Hall Park, Manhattan, of the proposed new Court House.

Which was referred to the Court House Board.

The Secretary presented the following communication from Mr. Reon Barnes, relative to the proposed contract with the Urban Water Supply Company, together with a report of the committee consisting of the Comptroller and the Chief Engineer of the Board, to whom this communication was referred June 29, 1911, stating that this proposed contract was reported to the Board, and was referred back to the Commissioner of Water Supply, Gas and Electricity, with a request for a specific recommendation, and that there is now nothing pending before the Board:

Reon Barnes, 45 Broadway, New York, June 26, 1911.

Hon. William J. Gaynor, *Mayor,* City of New York:

Dear Sir—I trust you received the communication which I had the honor to address to you on the 1st inst., touching somewhat upon water supply matters generally, but more particularly and urgently with respect to the offer of the Urban Water Supply Company to furnish to the City in the Borough of Queens, water at $55 per million; all as more definitely set out in the contract which was approved by the Commissioner of Water Supply and by him sent to the Board of Estimate and Apportionment for its consent, in August, 1910. Since the date last above-mentioned some suggestions have been made tending to modify by making more clear the intent of the respective parties, and have been embodied in the proposed contract.

The only remaining objection to the making of the contract (if indeed it shall be dignified as such), is that presented by the Commissioner, to wit: "The making of this contract would simply make an additional private water company for the City to purchase."

This company did not derive its corporate existence from the Department of Water Supply; on the contrary, the Woodside Water Company was incorporated under the Laws of the State of New York in 1892, and its successor, the Urban Water Supply Company, is a going concern with admittedly one of the best plants in the City.

In view of the fact that the vacation period usually availed of by the Board of Estimate and Apportionment in the past is near, and if we be not chargeable with impatience, may I respectfully bespeak your good offices in the premises to the end that the matter be disposed of at the regular meeting of the Board of Estimate and Apportionment this week? Yours truly, REON BARNES.

Board of Estimate and Apportionment, City of New York, July 3, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—At the meeting of the Board of Estimate and Apportionment held on June 29, 1911, a communication was presented from Mr. Reon Barnes requesting the Board to take action on a proposed contract with the Urban Water Supply Company for furnishing an additional supply of water in the First Ward of the Borough of Queens, which communication was referred to the Comptroller and the Chief Engineer of the Board.

Mr. Barnes in writing his letter appears to be under the impression that the proposed contract with the Urban Water Supply Company is now pending before the Board. This, however, is not the case. The same committee to which Mr. Barnes' letter was referred submitted to the Board of Estimate and Apportionment at its meeting held on April 27, 1911, a report dealing with this proposed contract, advising the Board that the contract as originally drawn had been changed in a number of particulars, and referring to a communication of the Commissioner of Water Supply, Gas and Electricity upon the general subject of the acquisition of private water companies and recommending in conclusion that the entire matter be referred back to the Commissioner of Water Supply, Gas and Electricity with the modified form of contract. The committee further recommended that the Commissioner be requested to advise the Board whether, in view of the circumstances outlined in the report, he still believed it to be advisable to enter into the proposed contract with the Urban Water Supply Company. On May 18, 1911, there was again referred to the same committee, a communication from the Commissioner of Water Supply relating to the general question of the acquisition of private water companies, and asking that the committee, to which had been referred his previous communication, be requested to submit a report in order that he might be advised as to the policy of the Board in this matter. On June 8, 1911, the committee submitted a report stating that certain information which had been requested had not yet been received, and that as soon as the necessary data should have been collected, its report would be submitted. This has now been done, and a report is to be presented to the Board on July 6 for reference to the Commissioner of Water Supply. Whether the Board agrees or disagrees with the report of the committee on the future policy of the City with respect to private water companies, the Commissioner of Water Supply will be in a position to make a final recommendation as to the contract with the Urban Water Supply Company, the form of which as modified is acceptable to your committee, but, as has been herein explained, there is nothing relating to this contract now before the Board. Respectfully,

WM. A. PRENDERGAST, Comptroller; NELSON P. LEWIS, Chief Engineer, Board of Estimate and Apportionment.

The report of the committee was approved by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Comptroller, the President of the Borough of Richmond and the Chief Engineer of the Board, to whom was referred, on April 27, 1911, a communication presented by Mr. Daniel F. Kiely offering to sell to the City the plants and franchise of the South Shore Water Works Company of Staten Island.

Which was laid over one week.

The Secretary presented a report of the Comptroller and the Chief Engineer of the Board, to whom were referred on June 15, 1911, specifications submitted by the Commissioner of Water Supply, Gas and Electricity for Flaming Arc Lamps to be installed where deemed advisable in public buildings of the City.

Which was laid over one week.

The Secretary presented a report of the Committee consisting of the Comptroller and the Chief Engineer of the Board, to whom was referred on October 21, 1910, a communication from the Commissioner of Water Supply, Gas and Electricity relative to the acquisition of private water companies, in which he recommended that a special appropriation be made to conduct an investigation to determine the value of these private companies, etc.

Which was laid over one week.

The Secretary presented the following report of Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending the establishment in the office of the President of the Borough of Manhattan, the position of Consulting Engineer of Sewers at $6,000 per annum:

(On June 29, 1911, the request of the President of the Borough of Manhattan for the establishment of the above position was referred to said Committee.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 6, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the President of the Borough of Manhattan requested the establishment in his office, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Consulting Engineer of Sewers, at $6,000 per annum, for one incumbent. In connection therewith we report as follows:

The President states that in effecting a partial reorganization of the Bureau of Sewers, and in carrying on at the same time the survey for a proposed new system for the southern part of Manhattan, for which funds have been appropriated, he finds it necessary to reserve the present Chief Engineer of the Bureau, Horace Loomis, more particularly for the consulting side of the work.

The President also states the following:

"The establishment of the new grade of position at the same compensation now paid the Chief Engineer, will permit me to appoint a Chief Engineer, who will be able to give his entire time to the executive and outside branch of the work, and at the same time retain the services of Mr. Loomis, who, because of his experience of nearly forty years in the engineering branch of the public service, will be well nigh indispensable to the proper carrying out of the plans we have in view."

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen, Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the office of the President of the Borough of Manhattan of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Consulting Engineer of Sewers	$6,000 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the College of The City of New York requesting, and report of the Comptroller recommending, the transfer of $300 from No. 1284 to No. 1283, supporting the appropriation made to said college for the year 1911:

The College of The City of New York, Office of the Board of Trustees, St. Nicholas Terrace and 139th Street, June 23, 1911.

To the Honorable Board of Estimate and Apportionment of The City of New York:

Gentlemen—Application is herewith made to your Honorable Board for the transfer of $300 from the appropriation entitled, "Repairs and Replacements by Contract or Open Order, 1284," to the appropriation, "Repairs and Replacements by Departmental Labor, 1283." This transfer is required to purchase materials for mechanics employed by the college to make repairs to the operating plant.

Yours respectfully, JAS. W. HYDE, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 23, 1911, the Secretary of the College of The City of New York requested the transfer of $300 within 1911 appropriations for the college. The debit account is No. 1284, Repairs and Replacements by Contract or Open Order, and the credit, No. 1283, Repairs and Replacements by Departmental Labor. The Budget allowance for No. 1284 is $5,850 and for No. 1283 $3,160.17. The transfer is for the purchase of materials to be used by the mechanics in the employ of the college to make repairs which would otherwise be made under contract.

I recommend that the request be granted by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the College of The City of New York for the year 1911 as follows:

From

1284. Repairs and Replacements by Contract or Open Order	$300 00

To

1283. Repairs and Replacements by Departmental Labor	$300 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller, an issue of $1,500 special revenue bonds (subdivision 8, section 188 of the Charter), to be used by the Commissioner of Records, Kings County, for the purchase and installation of steel map and filing cases, and for making such necessary alterations in old steel cases now in said office as may be required, for the storage, care and preservation of maps and records of Kings County:

In the Board of Aldermen.

Resolved, That, in pursuance to the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand five hundred dollars ($1,500), the proceeds whereof to be used by the Commissioner of Records of the County of Kings for the purchase and installation of steel map and filing cases and for making such necessary alterations in old steel cases now in said office as may be required, for the storage, care and preservation of maps and records of Kings County.

The purchase, installation and alteration of said cases are to be made with the approval and under the supervision of the President of the Borough of Brooklyn.

Adopted by the Board of Aldermen, April 25, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor, May 9, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 25, 1911, the Board of Aldermen adopted the following resolution:

"Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand, five hundred dollars ($1,500), the proceeds whereof to be used by the Commissioner of Records of the County of Kings for the purchase and installation of steel map and filing cases, and for making such necessary alterations in old steel cases now in said office as may be required, for the storage, care and preservation of maps and records of Kings County. The purchase, installation and alteration of said cases are to be made with the approval and under the supervision of the President of the Borough of Brooklyn."

On June 6, 1911, the Board of Aldermen adopted the following resolution:

"Resolved, That, pursuant to the provisions of section 419 of the Charter of The City of New York, the Board of Aldermen, deeming it for the public interest, hereby authorizes and empowers the Commissioner of Records of the County of Kings to purchase, in open market, instead of by contract at public letting, for the storage, care and preservation of maps and records, five steel map and filing cases, to be installed in his office, and to make such necessary alterations in old steel cases now in said office, as may be required, at a cost not to exceed the sum of one thousand, five hundred dollars ($1,500)."

Examination by the Department of Finance shows that the following work is necessary in the office of the Commissioner of Records of the County of Kings:

Construct and install one combination metal case for old filed maps, also for maps, plans and drawings. The case to be 15 feet 3 inches long, 7 feet 8½ inches high and 2 feet 10 inches deep, with 224 pigeonholes for maps, and 56 drawers for plans, etc.

Install doors for pigeon hole compartments and locking divice for drawers.

Construct and install one combination plan and book-case, 38 inches wide, 6 feet, 8 inches high, and 21 inches deep.

The present book case to be moved to another position and fitted into place, with such alterations as are necessary.

Metal backs to be fitted to three cases already installed.

Provide means for locking four filing cases (total length about 12 feet, height about 6 feet).

Alter map tubes and drawers underneath the same by removing 143 tubes (the lower 11 rows), and four drawers underneath, and install in place thereof nine drawers, 5½ feet long, 3¼ inches high, and 26 inches deep (from front to back).

Install locking device on remaining map tubes, new drawers and drawers of case adjoining thereto on the right containing cupboards and drawers.

Alter present closets (together about 2¾ feet wide and 6 feet high), and install in place thereof, one tier of book rollers, 1½ feet wide, similar in construction and design to those now in position in the book cases adjoining; and install steel curtain in front of same, of similar construction and design as those already in position; install underneath said book roller case one drawer 1½ feet wide and 8 inches high, to conform with drawers in adjoining cases.

Construct and install in remaining space of present closets (about 14 inches in width and 6 feet in height), a closet with sheet steel door, said closet to begin at present base and to be the full height of present closets.

Construct and install one steel drawer for table of same size and similar in every way to present drawer, to be placed directly under present drawer.

Make minor adjustments to present furniture.

The $1,500 asked for is a moderate sum to allow for this work.

I recommend, therefore, the authorization of this amount, pursuant to the request of the Board of Aldermen, by the adoption of the attached resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on April 25, 1911, requesting an issue of special revenue bonds in the sum of one thousand five hundred dollars ($1,500), the proceeds whereof to be used by the Commissioner of Records of the County of Kings for the purchase and installation of steel map and filing cases and for making such necessary alterations in old steel cases now in said office as may be required for the storage, care and preservation of maps and records of Kings County, the purchase, installation and alteration of said cases to be made with the approval and under the supervision of the President of the Borough of Brooklyn, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter to issue special revenue bonds of The City of New York to an amount not exceeding one thousand five hundred dollars ($1,500), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Education requesting, and report of the Comptroller, recommending, transfer of $3,158.40 within the special school fund for the year 1909, and $2,475 within the special school fund for the year 1910, the said transfers for each year representing adjustments within the total appropriations for repairs and replacements:

Resolved, That the Board of Estimate and Apportionment be, and it is hereby, respeectfully requested to approve the following transfers:

From the Special School Fund for the year 1909, and from the item contained therein, entitled "Repairs and Replacements by Contract or Open Order, General Repairs, No. 885, Borough of Brooklyn," which item is in excess of its requirements	$3,158 40
To the item also, contained within the Special School Fund for the year 1909, entitled "Repairs and Replacements by Contract or Open Order, Furniture and Repairs of, No. 890, Borough of Manhattan," which item is insufficient for its purposes	3,158 40

—and

From the Special School Fund for the year 1910, and from the items contained therein entitled as follows:

Repairs and Replacements by Contract or Open Order, Pianos and Repairs of, No. 1019, Borough of Queens	$100 00
Pianos and Repairs of, No. 1019, Borough of Queens	75 00
Furniture and Repairs of, No. 1012, Borough of The Bronx	100 00
Furniture and Repairs of, No. 1012, Borough of The Bronx	2,200 00

—which items are in excess of their requirements.

To the items also contained within the Special School Fund, for the year 1910, as follows:

Repairs and Replacements by Contract or Open Order, Pianos and Repairs of, No. 1016, Borough of Manhattan	$100 00
Pianos and Repairs of, No. 1018, Borough of Brooklyn	75 00
Furniture and Repairs of, No. 1013, Borough of Brooklyn	100 00
Electrical Installation and Repairs, No. 1028, Borough of Brooklyn	2,200 00

A true copy of resolution adopted by the Board of Education on June 14, 1911.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 14, 1911, the Board of Education requested Special School Fund transfers, as follows:

For the year 1909—

From	
885. General Repairs, Borough of Brooklyn	$3,158 40
To	
890. Furniture and Repairs of, Borough of Manhattan	$3,158 40

For the year 1910—

From	
1019. Pianos and Repairs of, Borough of Queens	$175 00
1012. Furniture and Repairs of, Borough of The Bronx	2,300 00
	$2,475 00
To	
1016. Pianos and Repairs of, Borough of Manhattan	$100 00
1018. Pianos and Repairs of, Borough of Brooklyn	75 00
1013. Furniture and Repairs of, Borough of Brooklyn	100 00
1028. Electrical Installation and Repairs, Borough of Brooklyn	2,200 00
	$2,475 00

The proposed transfers for each year represent readjustments within the total appropriations for Repairs and Replacements, which allowances are segregated in the budget by boroughs into items for general repairs, furniture and repairs of, pianos and repairs, etc. The actual liabilities as of June 29, 1911, in the several credit accounts are stated by the Auditor of the Board of Education to be as follows:

Liabilities to be Liquidated.

890. Furniture and Repairs of, Borough of Manhattan, 1909:	
Geo. W. Benham, furniture, Public School 10	$3,289 70
1016. Pianos and Repairs of, Borough of Manhattan:	
W. W. Kimball & Co., De Witt Clinton High School	$90 00
Aeolian Company, various	12 50
	$102 50
1018. Pianos and Repairs of, Borough of Brooklyn, 1910:	
Sohmer & Co., Curtis High School	10 00
Goetz & Co., Public School 127	3 00
M. P. Moller, Teachers' Training School	27 08
Goetz & Co., various	34 50
	$74 58
1013. Furniture and Repairs of, Borough of Brooklyn, 1910:	
Chas. G. Webber, Public School 91	$11 00
Jos. Maier, Public School 16	12 75
Jos. Maier, Public School 11	3 00
Jos. Maier, Public School 41	1 00
Jos. Maier, Public School 59	8 50
L. E. Atherton, Public School 45	23 00
E. Lampert & Son, Public School 136	2 00
P. W. Taylor, Public School 78	3 00
Jos. Maier, Public School 20	1 50
P. W. Taylor, office	2 50
Z. Hermannsen, various	23 01
Richmond School Furniture Company, storehouse	9 00
	$100 26
1028. Electrical Installation and Repairs, Borough of Brooklyn, 1910:	
W. R. Ostrander, shop	$3 50
W. R. Ostrander, shop	3 90
Sales Department, E. P. Gleason Company, Public School 140	10 00
Sales Department, E. P. Gleason Company, Public School 143	4 50
Sales Department, E. P. Gleason Company, Public School 126	6 00
Sales Department, E. P. Gleason Company, C. H. S.	9 50

The Standard Electric Time Company, E. D. H. S.	1 52
Hundh Electric Company, Public School 147	80
H. W. Johns-Manville Company, shop	1 50
Hammacher, Schlemmer & Co., various	43 66
German American Electric Company, Public School 43	4 80
Apex Electric Company, E. D. H. S.	260 00
C. M. O'Connor, Public School 45	493 70
Apex Electric Company, Public School 33	215 00
N. Y. Construction Company, shop	575 00
Apex Electric Company, office	315 00
Commercial Construction Company, Public School 149	264 00
	$2,212 38

There are ample balances in the debit accounts for the transfers.

I recommend that the request be granted by the adopttion of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the Department of Education for the year 1909, as follows:

From

885. Repairs and Replacements by Contract or Open Order, General Repairs, Borough of Brooklyn	$3,158 40

To

890. Repairs and Replacements by Contract or Open Order, Furniture and Repairs of, Borough of Manhattan	$3,158 40

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the Department of Education for the year 1910, as follows:

From

Repairs and Replacements by Contract or Open Order for 1910—

1019. Pianos and Repairs of, Borough of Queens	$175 00
1012. Furniture and Repairs of, Borough of The Bronx	2,300 00

To

Repairs and Replacements by Contract or Open Order for 1910—

1016. Pianos and Repairs of, Borough of Manhattan	$100 00
1018. Pianos and Repairs of, Borough of Brooklyn	75 00
1013. Furniture and Repairs of, Borough of Brooklyn	100 00
1028. Electrical Installation and Repairs, Borough of Brooklyn	2,200 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Education requesting, and report of the Comptroller recommending, transfer of $28.62, within the Special School Fund for 1910, from "No. 1012—Repairs and Replacements, Furniture, Borough of The Bronx," to "No. 1064—Water, Borough of Queens."

Resolved, That the Board of Estimate and Apportionment be, and it is hereby, respectfully requested to transfer the sum of twenty-eight dollars and sixty-two cents ($28.62) from the Special School Fund for the year 1910, and from the item contained therein entitled "Repairs and Replacements by Contract or Open Order, Furniture and Repairs of, No. 1012, Borough of The Bronx," which item is in excess of its requirements, to the item also contained within the Special School Fund for the year 1910, entitled "Water, No. 1064, Borough of Queens," which item is insufficient for its purposes.

A true copy of resolution, adopted by the Board of Education on June 14, 1911.
A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 14, 1911, the Board of Education requested the transfer of $28.62 within the Special School Fund for 1910, from No. 1012, Repairs and Replacements, Furniture, Borough of The Bronx, to No. 1064, Water, Borough of Queens.

The expenditures for water for public schools in Queens, during 1908 and 1909 amounted to approximately $6,200 a year. The appropriation for 1910 was $5,000, and there have been credit transfers in the sum of $1,242.79. The $28.62 is to cover bills for which no funds are available.

The balance in No. 1012 permits of the transfer.

I recommend, therefore, that the request be granted by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Board of Education for the year 1910, as follows:

From

1012. Repairs and Replacements by Contract or Open Order, Furniture and Repairs of, Borough of The Bronx	$28 62

To

Special Contract Obligations— 1064. Water, Borough of Queens	$28 62

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller,, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Select Committee, returning for filing request of the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the establishment of the grade of position of Clerk at $600 per annum, as the same has been withdrawn.

Which was ordered filed, and the Secretary directed to return the communication above referred to to the Commissioner of Parks, Boroughs of Manhattan and Richmond.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller relative to, an issue of $2,000 special revenue bonds (subdivision 8, section 188 of the Charter), for the purchase of an automobile for the Chief of the Bureau of Licenses, Mayor's office:

(On June 29, 1911, the resolution of the Board of Aldermen requesting the above issue was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand dollars ($2,000), the proceeds whereof to be used by the Chief of the Bureau of Licenses, Mayor's Office, for the purpose of purchasing an automobile.

Adopted by the Board of Aldermen June 13, 1911, three fourths of all the members voting in favor thereof.

Approved by the Mayor June 26, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Esetimate and Apportionment:

Gentlemen—On June 13, 1911, the Board of Aldermen adopted a resolution requesting $2,000 in special revenue bonds, to be used by the Chief of the Bureau of Licenses, Mayor's Office, for the purchase of an automobile. The resolution was approved by the Mayor on June 26, 1911. In connection therewith I report as follows:

The Chief of the Bureau of Licenses states that an automobile is necessary for the proper transaction of the duties devolving upon him and his subordinates. He cites the fact that all public dancing halls and moving picture shows in the five Boroughs have to be inspected previous to and subsequent to the granting of licenses and that the licensed places have to be under constant supervision and inspection to prevent violation of laws and ordinances. He also states that nearly all investigations have to be made in the evening and that an automobile would expedite the business of his Bureau.

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 13, 1911, and approved by the Mayor June 26, 1911, requesting an issue of special revenue bonds in the sum of two thousand dollars ($2,000), the proceeds whereof to be used by the Chief of the Bureau of Licenses, Mayor's Office, for the purpose of purchasing an automobile, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two thousand dollars ($2,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($6,500) for furnishing and erecting one duplex two-stage motor-driven air compressor at Williamsburg Bridge, Borough of Brooklyn:

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, New York, June 22, 1911.

Hon. WILL AM A. PRENDERGAST, *Comptroller,* City of New York:

Dear Sir—Pursuant to a resolution adopted by the Board of Estimate and Apportionment on January 5, 1911, I transmit herewith, for your examination and report to the said Board, plans, specifications and estimate of cost of the proposed contract for furnishing and erecting one duplex two-stage motor-driven air compressor at the Williamsburg Bridge, in the Borough of Brooklyn.

The estimated cost of the proposed contract is $6,500, and the location of the compressor is shown on Drawing 6842.

This compressor is needed in order to proceed with the work of the reinforcement of the main span of the Williamsburg Bridge. A contract has recently been let for the reinforcement of the end spans of the bridge, and it is desired to proceed with the work on the main spans at an early date. After the reinforcment work is completed the compressor will remain as part of the permanent equipment of the bridge.

The proposed contract is chargeable to the fund of the Department of Bridges, entitled "C-DB-42A, Williamsburg Bridge, Strengthening Structure," which fund was duly authorized by resolution of the Board of Estimate and Apportionment adopted June 3, 1910, and by resolution of the Board of Aldermen adopted June 28, 1910.

The balance remaining in this fund unencumbered on June 1, 1911, after providing for the contract for the strengthening of the end spans, bids for which were opened on June 1, 1911, was $127,172.86. Yours truly,

ARTHUR J. O'KEEFFE, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 22, 1911, the Commissioner of Bridges requested the approval of plans, specifications and estimated cost of $6,500 for furnishing and erecting one duplex, two-stage, motor-driven air compressor at the Williamsburg Bridge, in the Borough of Brooklyn.

The contract provides for the supplying, delivery and erection of one complete and successfully operating horizontal, double-acting, direct-connected, motor-driven, duplex air compressor, and the supplying and erecting of all piping, valves, fittings and hangers to connect compressor, separator and bridge pipe line in the bridge yard at Kent avenue, between South 5th and South 6th streets, Borough of Brooklyn.

The compressor is to be used in connection with the work of strengthening and reinforcing the river span of the Williamsburg Bridge. The work to be done by departtmental labor. The cost is to be charged to the Corporate Stock Fund entitled "C-DB-42A, Williamsburg Bridge, Strengthening Structure."

The specifications appear to be complete and satisfactory, and in such form as to give fair and reasonable competition. The estimated cost of $6,500 also appears to be reasonable.

I submit for adoption the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimate of cost, six thousand five hundred dollars ($6,500) for furnishing and erecting one duplex, two-stage, motor-driven air compressor at the Williamsburg Bridge, in the Borough of Brooklyn, under the jurisdiction of the Department of Bridges.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($180,000) for constructing the westerly subway and the Bayard street retaining wall on the Manhattan plaza of the Manhattan Bridge:

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, New York, June 17, 1911.

Hon. William A. Prendergast, *Comptroller,* City of New York:

Dear Sir—Pursuant to a resolution adopted by the Board of Estimate and Apportionment on January 5, 1911, I transmit herewith, for your examination and report to the said Board, plans, specifications and estimate of cost of the proposed contract for constructing the westerly subway and the Bayard street retaining wall on the Manhattan plaza of the Manhattan Bridge. The plans are shown on twelve drawings numbered 38-90 to 38-101, inclusive, and bear the general title "City of New York, Department of Bridges, Manhattan Bridge, Manhattan Plaza."

The estimated cost of the proposed contract is $180,000. The work of this proposed contract will complete the connection of the existing Canal street subway with the tracks on the bridge, and is chargeable to the funds of the Department of Bridges, entitled "C-DB-43, Manhattan Bridge, Manhattan Terminal; Subway and Surface Construction and Track Work," and "C-DB-44, Manhattan Bridge, Manhattan Terminal; Masonry, Grading, etc., at New Bayard, Canal and Forsyth Streets." The estimated amount chargeable to the first-mentioned fund is $120,000, and to the second-mentioned fund is $60,000.

These funds were duly authorized by resolutions of the Board of Estimate and Apportionment adopted June 3, 1910, and January 26, 1911, and by resolutions of the Board of Aldermen adopted July 5, 1910, and February 7, 1911. Yours truly,

ARTHUR J. O'KEEFFE, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 17, 1911, the Commissioner of Bridges requested the approval of plans, specifications and estimated cost of $180,000 for constructing the westerly subway and the Bayard street wall on the Manhattan plaza of the Manhattan Bridge.

The contract provides for the completion of the existing subway on the bridge property by building up the present retaining walls with reinforced concrete and constructing a roof of steel beams and concrete, waterproofing the sides and roof, and con structing a concrete floor; from the southerly end of the above work for a distance of about 67 feet a new subway is to be constructed with concrete floor, sides and roof of steel and concrete. From the portal of the new subway to the abutment at Division street the contract calls for the erection of two concrete reaining walls with granite coping. The laying of the track work complete from the bridge abutment to the present portal at Canal street is specified. The contract also provides for the construction of a granite-faced retaining wall, including granite stairway, from the abutment at Division street to a point near Chrystie street, and the adjacent concrete sidewalk on Bayard street.

The Manhattan plaza will probably be used for a trolley terminal, so that the Brooklyn trolley cars may cross the Manhattan Bridge, before the entire improvements are completed. No plan for this temporary service has been agreed upon, but all the work specified, which is a part of the general development of the Manhattan plaza of the Manhattan Bridge, should be completed before the plaza is used for a temporary terminal. It is proposed to pay the cost of the work out of the Corporate Stock Funds entitled "C-D B-44, Manhattan Bridge-Manhattan Terminal, Masonry, Grading, etc., at New Bayard, Canal and Forsyth Streets," and "C-D B-43, Manhattan Bridge-Manhattan Terminal, Subway and Surface Construction and Track Work."

The plans and specifications appear to be complete and satisfactory and the estimate of cost ($180,000) reasonable.

I recommend, therefore, the adoption of the attached resolution granting the request. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimate of cost, one hundred and eighty thousand dollars, ($180,000) for constructing the westerly subway and the Bayard street retaining wall on the Manhattan plaza of the Manhattan Bridge, under the jurisdiction of the Department of Bridges.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting an issue of $72,000 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the Commissioner of Street Cleaning for the purpose of hiring street cleaning machines under a contract with the Emerson Contracting Company:

(On May 25, 1911, the Board adopted a resolution, on the recommendation of the Committee appointed to investigate a flushing system, recommending that the Board of Aldermen adopt a resolution requesting the Board of Estimate and Apportionment to authorize the issue of special revenue bonds for the above purpose.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of seventy-two thousand dollars ($72,000), the proceeds whereof to be used by the Commissioner of Street Cleaning for the purpose of hiring street cleaning machines under a contract with the Emerson Contracting Company.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 3, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen June 20, 1911, requesting an issue of special revenue bonds of The City of New York in the sum of seventy-two thousand dollars ($72,000), the proceeds whereof to be used by the Commissioner of Street Cleaning for hiring street cleaning machines under a contract with the Emerson Contracting Company, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York, to an amount not exceeding seventy-two thousand dollars ($72,000), redeemable from the tax levy of the year succeeding the year of their issue, the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a request that the salary of the Reading Clerk of the Board be equalized with that of the Stenographer to the Board, namely, $3,500:

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment of the grade of position of Clerk in the office of the Board of Estimate and Apportionment, in addition to those already existing therein, with salary at the rate of three thousand five hundred dollars ($3,500) per annum for one incumbent.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby fixes the salary of James C. Deering, Clerk in the office of the Secretary of the Board of Estimate and Apportionment at the rate of thirty-five hundred dollars ($3,500) per annum, to take effect upon the establishment of the grade of said position as above, pursuant to resolution adopted by the Board of Estimate and Apportionment July 6, 1911.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following matters, not upon the Calendar for this day, were considered by unanimous consent:

The Comptroller presented resolutions of the Board of Aldermen requesting issues of special revenue bonds (subdivision 8, section 188 of the Charter), as follows: (1) $5,000 for payment of charges for automobile hire incurred by the Department of Taxes and Assessments; (2) $18,000 for payment of salaries of Temporary Clerks in Department of Taxes and Assessments during 1911; (3) $45,645 for the employment of an additional force and for increases in salaries of the present force of the Department of Taxes and Assessments, together with a report recommending approval of and concurrence in said resolutions, and also the approval of a salary schedule in re Item 2:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of five thousand dollars ($5,000), the proceeds whereof to be used by the Department of Taxes and Assessments for the purpose of hiring automobiles and other means of conveyance during 1911.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of eighteen thousand dollars ($18,000), the proceeds whereof to be used by the Department of Taxes and Assessments for the purpose for hire of temporary Clerks during 1911.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of forty-five thousand six hundred and forty-five dollars ($45,645), the proceeds whereof to be used by the Department of Taxes and Assessments for the purpose of paying increases in salaries in said Department, and further to provide for employment of thirteen additional Deputy Tax Commissioners at $2,400 each per annum.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 6, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen adopted three resolutions requesting your Board to authorize the Comptroller to issue special revenue bonds to the aggregate amount of $68,645 for the Department of Taxes and Assessments. In connection therewith, I report:

The purpose of the issues of bonds is as follows:

$18,000 for the hiring of temporary Clerks.

$5,000 for the hire of automobiles.

$45,645 to provide for additional Deputy Tax Commissioners and to further provide for increases in salaries to existing force.

In support of the request the Commissioners on June 15 stated:

"This request is made, first, to meet the extraordinary emergency presented by the probable enactment of Assembly Bill 2321, introduced by Assemblyman Shortt, heretofore passed by the Legislature and now in the hands of the Mayor, awaiting his approval. This bill provides for the payment of taxes semi-annually on the first days of May and November. It provides for the completion of the assessments and the opening of the books of Annual Record for public inspection on the first day of October instead of the second Monday of January. Should the bill be signed it will be necessary for the Tax Department to make a new assessment by October 1.

"Ordinarily the Deputies and Clerks receive their vacations in the months of July and August. During those months they perform the duty of extending the taxes. If an assessment must be made by October 1, the pressure of work upon the Deputies will be very severe, and as to clerical labor will be more than the Department, as now manned, can accomplish. Temporary Clerks must be employed to assist in the clerical labor, and for this purpose $18,000 is requested. The Charter provides that Deputy Tax Commissioners must personally visit every parcel of assessable property and make oath that they have made this personal inspection. That this may be done in the short time, it will be necessary to hire automobiles and other means of conveyance. For this purpose $5,000 is requested.

"Prior to consolidation, Assessors in the Borough of Brooklyn were paid $3,000 a year, and the Deputy Tax Commissioners in the old City of New York were paid $2,700. Since consolidation, the salaries have been reduced to a point that is entirely disproportionate to the duties of the office. Deputies have been appointed for some years at $1,800 a year, in spite of the fact that the cost of living has greatly increased. Each year the Deputies are held to a stricter accountability and the labors are increased. We believe that no Deputy should be paid less than $2,400 at the commencement of his service, and that his salary should be increased with increased efficiency and a longer term of service. Of the special revenue bond issue requested $23,295 is for the purpose of increasing the salaries of Deputy Tax Commissioners so that the lowest ordinary grade shall receive $2,400 a year, and others in proportion. The Deputy Tax Commissioners have always been required to assess a larger number of parcels and a larger territory than should be imposed on any one man. With the increase in population and consequent increase in the number of buildings and number of separately assessed parcels the duties yearly become more onerous and a larger force is a necessity. We, therefore, ask for $22,350 for the employment of thirteen additional Deputies at $2,400 a year, with a sufficient number of Clerks.

"The changes in salary proposed to be made are more fully explained and described in the application for the establishment of new grades, pursuant to section 56, now before the Board of Estimate."

It would appear that the additional force and temporary Clerks are necessary for the reasons stated by the Commissioners. The Assembly Bill referred to has been made a law.

It seems reasonable to assume that the item for automobile hire will be necessary under the circumstances.

The Comptroller has submitted to your Board a separate report with reference to the necessary modification of the schedule supporting the Budget appropriation for salaries based upon favorable action by your Board on the special revenue bond issue for $45,645 for increases and new force, in which a complete analysis is made of the changes involved.

I transmit for your consideration four resolutions: (1) Concurring with the resolution of the Board of Aldermen providing $5,000 for automobile hire; (2) $18,000 for the payment of salaries to temporary Clerks; (3) $45,645 to provide for new force and for salary increases for the last six months of 1911; (4) establishing schedule of salaries for the account providing for temporary Clerks.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds amounting to five thousand dollars ($5,000) to provide means for the payment of charges for automobile hire incurred by the Department of Taxes and Assessments, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five thousand dollars ($5,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds amounting to eighteen thousand dollars ($18,000) to provide means for the payment of salaries of temporary Clerks to be employed in the Department of Taxes and Assessments during the year 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding eighteen thousand dollars ($18,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds amounting to forty-five thousand, six hundred and forty-five dollars ($45,645) to provide means for the employment of additional force and to further provide for increases in salaries in present force of the Department of Taxes and Assessments, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding forty-five thousand six hundred and forty-five dollars ($45,645), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following schedule of salaries of the special revenue appropriation for the Department of Taxes and Assessments for 1911:

Department of Taxes and Assessments.

Salaries, Temporary Employees, Revenue Bond Force:

Clerks at $1,200 (120 months)	$12,000 00
Clerks at $900 (30 months)	2,250 00
Clerks at $750 (60 months)	3,750 00
	$18,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Comptroller presented a communication from the Public Service Commission, in the First District, submitting for approval proposed contracts for the construction of sections 6, 7, 8, 10 and 11 of the Lexington avenue subway, and requesting the Board to prescribe the limit to the amount of bonds available to meet the requirements of said contracts and to authorize their issue.

Which was referred to the Comptroller.

The Comptroller presented a communication from the Central Federated Union of Greater New York relative to the observance of the law in regard to the employment of labor on proposed subways, etc.

Which was referred to the Public Service Commission for the First District.

The Comptroller presented a communication from Coughlan & Tuttle, attorneys-at-law, representing owners of property in South Brooklyn and urging, before final arrangements are made on contracts for new subways, that work be started on Triborough system;

—and a

Petition of property owners and representatives of the most important sections of Brooklyn affected by the new Brooklyn Rapid Transit subway system protesting the Atlantic avenue route.

Which were referred to the Committee of The Whole.

The President of the Borough of Manhattan moved that when the Board adjourns, it adjourn to meet Monday, July 10, 1911, at 10.30 o'clock a. m., which motion was adopted.

On motion of the Comptroller, the Board adjourned to meet Monday, July 10, 1911, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT

Minutes of Meeting of Board of Estimate and Apportionment, Called for Monday, July 10, 1911, at Room 16, City Hall.

FINANCIAL AND FRANCHISE MATTERS.

At the meeting of the Board held July 6, 1911, an adjournment was taken until this day.

Owing to the absence of a quorum no meeting was held.

JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Thursday, July 13, 1911, at 10.30 a. m.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of the following call:

City of New York, Office of the Mayor, July 10, 1911.

In pursuance of the provisions of section 226 of the Greater New York Charter, the Board of Estimate and Apportionment requests the Mayor to call a meeting of said Board on Tuesday, July 13, 1911, at 10.30 o'clock a. m.

W. J. GAYNOR, Mayor; WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; ALFRED E. STEERS, President, Borough of Brooklyn; CYRUS C. MILLER, President, Borough of The Bronx; LAWRENCE GRESSER, President, Borough of Queens; GEORGE CROMWELL, President, Borough of Richmond.

Present—William J. Gaynor, Mayor; William A. Prendergast, Comptroller; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Cyrus C. Miller, President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Mayor, Hon. William J. Gaynor, presided.

The minutes (Financial and Franchise Matters) of the meeting held June 30, 1911, were approved as printed in the City Record, July 11, 1911.

FRANCHISE MATTERS.

Rapid Transit Railway. Battery, East River, Atlantic Avenue Route.

Consideration of the communication dated June 30, 1911, from the Public Service Commission for the First District, transmitting resolutions adopted by said Commission as to route and general plan of construction for a proposed rapid transit railway, beginning at a point under Battery Park, Borough of Manhattan, and extending under the park and ferry or waterfront property to the East River; thence under the East River to a point at or near Atlantic avenue, Borough of Brooklyn, extended with the pier-head line; thence under and along Atlantic avenue to a point in said avenue, about 150 feet east of the easterly line of Court street, Borough of Brooklyn, where a connection can be made with section 11-D of the Fourth Avenue Subway; and requesting the approval and consent of this Board thereto.

This communication was presented to the Board at the meeting of July 6, 1911, and by resolution duly adopted, this day was fixed as the date for consideration and the communication referred to the Franchise Committee.

An affidavit of publication was received from the City Record.

Hon. Edward M. Grout appeared on behalf of Abraham & Straus and other property owners and protested against the proposed railway on Atlantic avenue.

Hon. Milo R. Maltbie, Commissioner, Public Service Commission for the First District, appeared in favor.

No one else desiring to be heard, the Chair declared the consideration concluded.

The matter was then laid over until the next meeting of the Board (Monday, July 17, 1911).

FINANCIAL MATTERS.

The following transfers of appropriations were made upon the recommendation of the Comptroller:

$62,500 within the appropriation made to the Department of Water Supply, Gas and Electricity for the year 1911.

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13 to 21 Park Row, City of New York, June 13, 1911.

The Honorable, the Board of Estimate and Apportionment, City of New York:

Gentlemen—In order to meet the requirements of this Department, I would respectfully request the transfer to and from the following funds of the Appropriation Accounts authorized for this Department for the year 1911:

From

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting—
643. Lighting Public Buildings, 1911.................................. $62,500 00

To

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting—
642. Street and Park Lighting, 1911.................................. $42,500 00

To

Borough of Brooklyn, Bureau of Lamps and Lighting—
664. Street and Park Lighting, 1911.................................. $5,000 00

To

Borough of Queens, Bureau of Lamps and Lighting—
683. Street and Park Lighting, 1911.................................. $9,000 00

To

Borough of Queens, Bureau of Lamps and Lighting—
676. Repairs and Replacements by Contract or Open Order, 1911........ $6,000 00

Yours very truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1911, the Commissioner of Water Supply, Gas and Electricity requested transfers aggregating $62,500 within the appropriations made for the several Bureaus of Lamps and Lighting in his Department, for the year 1911. In connection therewith I report as follows:

The only debit transfer is from No. 643—Lighting Public Buildings, Boroughs of Manhattan and The Bronx. The transfer of the $62,500 from this account is possible for the reason that the 1911 contract for lighting public buildings shows a saving of more than $70,000 below the cost of similar service at the 1910 rates.

The proposed credit transfers, and the reason therefor, are as follows:

To No. 642. Street and Park Lighting—Boroughs of Manhattan and The Bronx—$42,500. Required for additional street lighting, $25,000, and for the purchase of new lamp posts, $17,500.

To No. 664. Street and Park Lighting—Borough of Brooklyn—$5,000. Required for additional lighting of Ocean Parkway and other streets.

To No. 683. Street and Park Lighting—Borough of Queens—$9,000. Required for necessary additional lighting.

To No. 676. Repairs and Replacements by Contract or Open Order—Borough of Queens—$6,000. Required for necessary repairs to and replacement of lamps in that Borough.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Water Supply, Gas and Electricity for the year 1911, as follows:

From

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting—
643. Lighting Public Buildings.. $62,500 00

To

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting—
642. Street and Park Lighting.. $42,500 00
Heat, Light and Power, Borough of Brooklyn, Bureau of Lamps and Lighting—
664. Street and Park Lighting.. $5,000 00
Heat, Light and Power, Borough of Queens, Bureau of Lamps and Lighting—
676. Repairs and Replacements by Contract or Open Order........... $6,000 00
Heat, Light and Power, Borough of Queens, Bureau of Lamps and Lighting—
683. Street and Park Lighting.. $9,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

$300 within the appropriation made to the Department of Parks, The Bronx, for the year 1911.

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, June 26, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, and Chairman of the Board of Estimate and Apportionment,* City Hall, New York City:

Sir—The unencumbered balance, Administration Contingencies, 1911, Code No. 1128, on this date is $124.55.

A special payroll for the services of a Temporary Stenographer for the month of June ($87.50) is to be deducted from this amount, leaving a net balance of $37.05, which amount is insufficient for the balance of this year. Therefore, application is respectfully made for a transfer of three hundred dollars ($300) from the appropriation for the year 1911, entitled 1136, Maintenance, Parks and Boulevards, General Supplies, 1911, to the appropriation entitled 1128, Administration Contingencies, 1911.

Submitting this application for the approval of your honorable Board, I remain,

Respectfully,

T. J. HIGGINS, Commissioner of Parks, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1911, the Commissioner of Parks, Borough of The Bronx, requested a transfer of $300 within appropriation to the Department for the year 1911. In connection therewith I report as follows:

The proposed transfer is from Maintenance, Parks and Boulevards, No. 1136, General Supplies, to Administration, No. 1128, Contingencies. The appropriation for No. 1128 was $1,000. On June 26, 1911, the balance in the account was $124.55. A payroll for a temporary Stenographer for June, amounting to $87.50, is to be deducted, leaving a net balance of $37.05. The Commissioner states that the $1,000 has been expended largely in purchases made necessary by the installation of a new system in the office.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the Department of Parks, Borough of The Bronx, for the year 1911, as follows:

Department of Parks, Bronx.

From

Maintenance, Parks and Boulevards—
1136. General Supplies $300 00

To

Administration—
1128. Contingencies $300 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

$1,207.22 within the appropriation made to the Department of Education for the year 1910.

$844.05 within the appropriation made to the Department of Education for the year 1909.

Board of Education, Park avenue and 59th street, New York, June 29, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I have the honor to transmit herewith certified copies of resolutions adopted by the Board of Education at a meeting held on the 28th inst., as follows:

1. Relative to the transfer of $844.05 within the Special School Fund for the year 1909, and the transfer of $1,207.22 within the Special School Fund for the year 1910.
2. Relative to the transfer of $10 within the Special School Fund for the year 1911.

Respectfully yours, A. E. PALMER, Secretary, Board of Education.

Resolved, That the Board of Estimate and Apportionment be, and it is hereby respectfully requested to approve the following transfers:

From the Special School Fund for the year 1909 and from the item contained therein entitled "General Supplies, No. 881, for Evening Lectures, Board of Education," which item is in excess of its requirements $844.05.

To the item also contained within the Special School Fund for the year 1909, entitled "Water, No. 927, Borough of Brooklyn," which item is insufficient for its purposes $844.05, and

From the Special School Fund for the year 1910 and from the item contained therein entitled "General Supplies, No. 1003, Evening Lectures, Board of Education," which item is in excess of its requirements $1,207.22.

To the item also contained within the Special School Fund for the year 1910 entitled "Water, No. 1063, Borough of Brooklyn," which item is insufficient for its purposes, $1,207.22.

A true copy of resolution adopted by the Board of Education June 28, 1911.

A. E. PALMER, Secretary, Board of Education.

The City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the Board of Education requested transfers of $844.05 and $1,207.22, respectively, within the Special School Fund appropriations for the years 1909 and 1910, for the purpose of liquidating claims of the German American Improvement Company for water supplied to Public School 149, Sutter avenue, Vermont and Wyona streets, Borough of Brooklyn. In connection therewith I report as follows:

This company owns the water mains which supply the school. The water consumed in the building is metered, the charges therefor aggregating $1,377.11 for 1909 and $1,407.22 for 1910. Owing to the meters being out of order, there was considerable delay in adjusting the claims, which accounts for their not having been vouchered at an earlier date.

The budget allowance for Water, Borough of Brooklyn, for 1909 (No. 927), was $200. There was a credit transfer of $333.06, and the total amount of $533.06 was applied to the claim of the German American Improvement Company, amounting to $1,377.11 for the year. It is proposed to transfer the $844.05 from the allowance for General Supplies, Evening Lectures (No. 881), to cover the remaining liability.

The charge for water for 1910 aggregates $1,407.22. The budget allowance of $200 is available. It is proposed to cover the remaining $1,207.22 by transfer from No. 1003, General Supplies, Evening Lectures, 1910.

Existing balances permit of the transfers.

I recommend that the request be granted by the adoption of the attached resolutions.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfers of funds appropriated to the Department of Education for the year 1910, as follows:

From

Special School Fund—

1003. General Supplies, Evening Lectures	$1,207 22

To

Special School Fund—

1063. Water, Borough of Brooklyn	$1,207 22

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated to the Department of Education for the year 1909, as follows:

From

Special School Fund—

881. General Supplies, Evening Lectures	$844 05

To

Special School Fund—

927. Water, Borough of Brooklyn	$844 05

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens, and Richmond—16.

$4,250 within the appropriation made to the Department of Water Supply, Gas and Electricity for the year 1911.

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 20, 1911.

The Honorable, the Board of Estimate and Apportionment, City of New York:

Gentlemen—In order to meet the requirements of this Department, I would respectfully request the transfer to and from of the following funds of the Appropriation Accounts authorized for this Department for the year 1911.

From

643. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, Lighting Public Buildings	$1,750 00
665. Heat, Light and Power, Borough of Brooklyn, Bureau of Lamps and Lighting, Lighting Public Buildings	2,500 00

To

633. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, General Supplies	$400 00
635. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Apparatus, Machinery, Vehicles, Harness, etc., including Care and Storage	700 00
636. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, Purchase of Furniture and Fittings	700 00
648. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, General Supplies	200 00
649. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, Purchase of Furniture and Fittings	450 00
652. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, Contingencies	800 00

662. Heat, Light and Power, Borough of Brooklyn, Bureau of Lamps and Lighting, Contingencies	300 00
673. Heat, Light and Power, Borough of Brooklyn, Bureau of Electrical Inspection, Contingencies	350 00
681. Heat, Light and Power, Borough of Queens, Bureau of Lamps and Lighting, Contingencies	350 00

Yours very truly, HENRY S. THOMPSON, Commissioner.

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Commssioner of Water Supply, Gas and Electricity requested transfers aggregating $4,250 within the appropriations to the Bureau of Lamps and Lighting and Electrical Inspection in his Department for the year 1911. In connection therewith I report as follows:

The debit transfers are for $1,750 from No. 643, Lighting Public Buildings, Manhattan and The Bronx, and $2,500 from No. 665, Lighting Public Buildings, Brooklyn. These transfers are possible for the reason that certain lighting contracts for 1911 have been made at a lower unit rate than was paid by the City in 1910.

The credit transfers are for nine accounts, in amounts from $200 to $800. One item is for $700 to the Bureau of Lamps and Lighting, Manhattan and The Bronx, No. 635, Apparatus, Machinery—Vehicles, Harness, etc., for the purchase of electrical apparatus for use in inspecting trolley and street lighting systems. The balance available for this purpose is stated to be $217.05. The estimated cost of the apparatus is $840, for one calibrating set at $250; four Bristol meters, at $60 each, and ten current transformers, at $35 each.

It is also proposed to transfer $700 to No. 636, Purchase of Furniture and Fittings, for furniture for the several divisions of the Bureau. The request is based on the following estimate:

1 drawing table	$31 80
2 flat top desks	38 00
1 catalogue case	25 00
1 table	19 00
3 revolving chairs	29 75
1 typewriter's desk	25 00
1 typewriter's chair	7 00
1 desk	20 00
1 chair	6 00
6 vertical files	140 00
3 bookcases	150 00
Filing cases	85 00
Steel lockers	115 00
	$691 55

The transfers to the other accounts are to replenish appropriations which have been found to be insufficient for ice, rubber stamps, carfares and other contingencies, and general supplies.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfers of funds appropriated to the Department of Water Supply, Gas and Electricity, for the year 1911, as follows:

From

632. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, Lighting Public Buildings	$1,750 00
665. Heat, Light and Power, Borough of Brooklyn, Bureau of Lamps and Lighting, Lighting Public Buildings	2,500 00

To

633. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, General Supplies	$400 00
635. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Apparatus—Machinery, Vehicles, Harness, etc., including Care and Storage	700 00

636. Heat, Light and Power, Boroughs of Manhattan and The Bronx. Bureau of Lamps and Lighting, Purchase of Furniture and Fittings	700 00
648. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, General Supplies	200 00
649. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, Purchase of Furniture and Fittings	450 00
652. Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, Contingencies	800 00
662. Heat, Light and Power, Borough of Brooklyn, Bureau of Lamps and Lighting, Contingencies	300 00
673. Heat, Light and Power, Borough of Brooklyn, Bureau of Electrical Inspection, Contingencies	350 00
681. Heat, Light and Power, Borough of Queens, Bureau of Lamps and Lighting, Contingencies	350 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

$400 within the appropriation made to the Fire Department for the year 1911.

Fire Department of The City of New York, Office of the Commissioner, New York, June 29, 1911.

Hon. William J. Gaynor, *Mayor, and Chairman, Board of Estimate and Apportionment:*

Sir—I have the honor to request that the Board of Estimate and Apportionment authorize the following transfer from appropriation for the Purchase of Horses, made to this Department for the current year.

This money will not be required for the purchase of horses.

From

Account No. 992, Purchase of Horses	$400 00

To

Account No. 995, Telephone Service	$400 00

This transfer is necessary owing to the reason that the contracts cover a greater amount than was allowed by the Board of Estimate in the annual Budget.

Respectfully, JOS. JOHNSON, Fire Commissioner.

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the Commissioner of the Fire Department requested the transfer of $400 within the appropriations to the Department for the year 1911. In connection therewith I report as follows:

The transfer is from No. 992, Purchase of Horses, The Bronx, to No. 995, Telephone Service, The Bronx.

The appropriations for No. 992 was $4,000, and no liabilities have been incurred. The appropriation for No. 995 was $2,000. Contracts for telephone service in The Bronx with the New York Telephone Company calling for an expenditure of $2,323.87, cannot be executed because of inadequate appropriation.

I recommend that the request be approved by the adoption of the attached resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Fire Department for the year 1911, as follows:

From

Fire Department, Administration, Borough of The Bronx—

992. Purchase of Horses	$400 00

To

995. Telephone Service	$400 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Chief of the Bureau of Licenses, Mayor's Office, relative to the establishment of the position of Automobile Engineman for said Bureau:

Mayor's Office, Bureau of Licenses, City Hall, New York, July 7, 1911.

Board of Estimate and Apportionment, 277 Broadway, City:

Dear Sirs—I have your letter of July 3, returning my application of June 29 for the establishment of position of Chauffeur for this Bureau.

Inasmuch as this Department has just been given an automobile, it seems to me that an exception might be made in the case of this application and that the position of Chauffeur ought to be created, otherwise we will be in the position of having an automobile without any regular Chauffeur.

Respectfully, JAMES G. WALLACE, Jr., Chief of Bureau.

The following resolution was offered:

Resolved, That, in accordance with the provisions of section 56 of the Greater New York Charter, the Board of Estimate and Apportionment hereby recommends to the Board of Aldermen the establishment of the following position, in the Bureau of Licenses, Mayor's office:

Title.	Rate Per Annum.	Number of Incumbents.
Automobile Engineman................................	$1,200 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Consideration of the communication from the Corporation Counsel, in response to resolution adopted by the Board on April 6, 1911, requesting that information be furnished the Board in regard to the present status of the suit started by The City of New York against the New York Central and Hudson River Railroad Company for $231,750, with interest, claimed to be due for the past use and occupation of certain lands and lands under water between 60th and 72d streets, west of 11th avenue, Borough of Manhattan, was laid over.

The Secretary presented a communication from the Secretary of the 11th Avenue Track Removal Association on the subject.

(At the meeting held June 15, 1911, the Corporation Counsel was requested to advise the Board by its next meeting, June 22, 1911, exactly what rights are left the City as the result of the decision of the Court of Appeals in the injunction suit brought by the Railroad Company to restrain the City from interfering with its tracks, etc., and what courses are left open to it, if any.)

(On June 22, 1911, the above matter was laid over for one week at the request of the Corporation Counsel.)

(On June 29, and again on July 6, 1911, the matter was laid over for one week.)

The Secretary presented a communication from the President of the Borough of The Bronx, submitting resolution to rescind the action of the Board on July 6, 1911, in recommending the establishment in the office of the President of the Borough of Brooklyn of the grade of position of Inspector of Regulating, Grading and Paving at $1,800 per annum for an unlimited number of incumbents.

Which was referred to the President of the Borough of The Bronx and the President of the Borough of Brooklyn, and the resolution adopted July 6, 1911, referred to therein, was withdrawn from the consideration of the Board of Aldermen.

The Secretary presented communications as follows:

From the President of the Borough of Richmond, rescinding request presented to the Board at the meeting of February 9, 1911, and referred to the Corporate Stock

Budget Committee, for the issue of $1,500 corporate stock to provide for the purchase of an easement in land traversed by the sewer from the Sea View Hospital, and that the Board now request the Corporation Counsel to proceed with the application for the appointment of Commissioners of Estimate and Assessment for the condemning of this easement;

From the Commissioner of Street Cleaning, requesting an issue of $43,500 corporate stock (section 546 of the Charter) for the purpose of constructing a storehouse under the Williamsburg Bridge in Manhattan to serve as the office of the Property Clerk of the Department, and to pave the yard and build a wall around said property;

(2) From Reese D. Alsop (member of the Brooklyn Committee of Public Health, Morris Douw Ferris and John W. Crandall, and from Frederick W. Starr—urging appropriations to the Departments of Health and Public Charities for additional hospital facilities for tuberculosis patients.

Which were referred to the Corporate Stock Budget Committee, consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan.

The Secretary presented the following communication from the President of the Borough of Richmond, submitting the following resolution for the consideration of the Board:

"Resolved, That the Comptroller be authorized during the months of July, August and September, 1911, to pass finally upon contract plans for work to be carried out with the proceeds of corporate stock issues, rather than wait for final authorization by the Board of Estimate and Apportionment on report from the Comptroller."

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, July 6, 1911.

Board of Estimate and Apportionment, 277 Broadway, N. Y. City:

Gentlemen—I beg to submit the following proposed resolution for consideration at the next meeting of the Board of Estimate and Apportionment, to be held July 13, 1911:

Resolved, That the Comptroller be authorized during the months of July, August and September, 1911, to pass finally upon contract plans for work to be carried out with the proceeds of corporate stock issues, rather than wait for final authorization by the Board of Estimate and Apportionment on report from the Comptroller.

Yours very truly, GEORGE CROMWELL, President of the Borough.

At the suggestion of the Comptroller, the proposed resolution was modified by striking therefrom the word "July" and the following resolution was offered:

Resolved, That the Comptroller be authorized during the months of August and September, 1911, to pass finally upon contract plans for work to be carried out with the proceeds of corporate stock issue, rather than wait for final authorization by the Board of Estimate and Apportionment on report from the Comptroller.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a communication from the Commissioner of Bridges, submitting for consideration and action by the Board, pursuant to resolution adopted June 15, 1911, bid of the Otis Elevator Company for $582,000 for furnishing and installing elevators in the Municipal Building.

The communication and bid were returned to the Commissioner of Bridges for readvertising.

The Secretary presented a communication from Henry S. Wood relative to his proposition for building new subways.

Which was referred to the Committee of the Whole.

The Secretary presented the following communication from the Comptroller, requesting that the salary schedules supporting the appropriation made in the Budget for the year 1911, for the Department of Finance, be modified in order to provide for the appointment of an additional Examiner at $1,200 per annum, of a Law Clerk at $1,200 per annum, and that the provision for a Clerk at $2,250 per annum in the schedule of Revenue, Taxes, Assessments and Arrears, Miscellaneous, Account No. 32, authorized by the Board on June 29, 1911, be made to take effect as of February 15, 1911.

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

The Honorable Board of Estimate and Apportionment:

Gentlemen—Request is hereby made that the Budget schedule lines supporting the salaries' appropriations, as made to the Department of Finance for the year 1911, be modified in order to provide for the following changes:

First—For the appointment of an additional Examiner in the Law and Adjustment Division, at $1,200 per annum.

Second—For the employment of an additional Law Clerk at $1,200 per annum, in the Law and Adjustment Division.

Third—To provide that the provision for a Clerk at $2,250 per annum in the schedule of Revenue, Taxes, Assessments and Arrears, Miscellaneous, Account No. 32, as authorized by Board of Estimate and Apportionment resolution dated June 29, 1911, be made to take effect as of February 15, 1911.

This is in accordance with my request of June 17, 1911, but through inadvertance the date—February 15, 1911—was omitted from the resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following modifications of the schedules of salaries supporting the appropriation made to the Department of Finance for the year 1911, entitled and as follows:

Executive Division—

25. Salaries:

Deputy Comptrollers, 2 at $7,500	$15,000 00
Assistant Deputy Comptroller	6,000 00
Secretary to the Department	6,000 00
Clerk to the Comptroller	2,100 00
Stenographer to the Comptroller	1,500 00
Chief Stock and Bond Clerk	5,000 00
Chief Examiner of Accounts of Institutions	5,000 00
Appraiser of Real Estate	4,000 00
Clerk	3,000 00
Clerk (Chief)	2,800 00
Clerk	2,800 00
Clerks, 2 at $2,400	4,800 00
Clerks, 2 at $2,250	4,500 00
Clerk	2,100 00
Clerk	1,950 00
Clerks, 4 at $1,800	7,200 00
Clerks, 5 at $1,650	8,250 00
Clerk	1,500 00
Clerks, 4 at $1,350	5,400 00
Clerks, 4 at $1,200	4,800 00
Clerks, 5 at $1,050	5,250 00
Clerks, 4 at $900	3,600 00
Clerks, 6 at $750	4,500 00
Clerk	600 00
Clerks, 7 at $540	3,780 00
Clerks, 7 at $480	3,360 00
Clerks, 9 at $300	2,700 00
Searcher	1,650 00
City Paymaster	6,000 00
Deputy City Paymasters, 8 at $2,500	20,000 00
Auditor of Accounts	6,000 00
Auditors of Accounts, 2 at $4,000	8,000 00
Auditor of Accounts	3,000 00
Deputy Auditor of Accounts	2,100 00
Examiner	5,000 00
Examiners, 2 at $2,550	5,100 00
Examiners, 5 at $2,100	10,500 00
Examiners, 4 at $1,800	7,200 00
Examiners, 4 at $1,650	6,600 00
Examiners, 4 at $1,500	6,000 00
Examiner	1,200 00
Examining Inspectors, 2 at $1,650	3,300 00
Examining Inspectors, 3 at $1,500	4,500 00

Stenographer and Typewriter	1,650 00
Stenographers and Typewriters, 2 at $1,500	3,000 00
Stenographers and Typewriters, 8 at $1,350	10,800 00
Stenographers and Typewriters, 5 at $1,050	5,250 00
Stenographer and Typewriter	900 00
Stenographer and Book Typewriter	1,050 00
Stenographers and Typewriters, 2 at $750	1,500 00
Typewriting Copyist	900 00
Bank Messengers, 2 at $1,200	2,400 00
Messengers, 4 at $1,350	5,400 00
Messengers, 2 at $1,200	2,400 00
Extra Messenger	1,050 00
Telephone Operators, 3 at $1,050	3,150 00
Janitor	900 00
Watchmen, 4 at $900	3,600 00
Janitress (Cleaner)	540 00
Bookkeeper	4,000 00
Bookkeeper	1,950 00
Bookkeepers, 3 at $1,350	4,050 00
Bookkeepers, 6 at $1,200	7,200 00
Cashier	1,800 00
Financial Clerks, 2 at $2,250	4,500 00
Financial Clerks, 5 at $1,800	9,000 00
Financial Clerks, 4 at $1,650	6,600 00
Financial Clerks, 2 at $1,500	3,000 00
Financial Clerks, 9 at $1,350	12,150 00
Financial Clerks, 4 at $1,200	4,800 00
Financial Clerk	1,050 00
Stock and Bond Clerks, 4 at $2,100	8,400 00
Stock and Bond Clerk	1,950 00
Bookbinders, 4 at $1,200	4,800 00
Topographical Draftsman	1,500 00
Topographical Draftsman	1,350 00
Law Clerk	2,300 00
Law Clerk	1,800 00
Law Clerks, 2 at $1,200	2,400 00
Medical Examiner	2,500 00
Inspector of Sewer Construction	1,500 00
Balance Unassigned	130 00
	$346,860 00

Revenue: Taxes, Assessments and Arrears, Miscellaneous—

32. Salaries.

Receiver of Taxes	$6,000 00
Deputy Receivers of Taxes, 2 at $4,000	8,000 00
Deputy Receivers of Taxes, 2 at $3,750	7,500 00
Deputy Receivers of Taxes, 3 at $2,500	7,500 00
Deputy Receivers of Taxes, 3 at $2,100	6,300 00
Collector of Assessments and Arrears	4,500 00
Deputy Collector of Assessments and Arrears	4,000 00
Deputy Collector of Assessments and Arrears	3,500 00
Deputy Collectors of Assessments and Arrears, 2 at $2,250	4,500 00
Deputy Collector of Assessments and Arrears	2,000 00
Collector of City Revenue and Superintendent of Markets	3,000 00
Cashier	2,500 00
Cashiers, 2 at $2,100	4,200 00
Cashiers, 2 at $1,800	3,600 00
Cashiers, 4 at $1,650	6,600 00
Cashiers, 3 at $1,500	4,500 00
Accountant	1,800 00
Accountants, 2 at $1,500	3,000 00
Bookkeeper	2,250 00
Bookkeepers, 2 at $1,800	3,600 00
Bookkeepers, 2 at $1,500	3,000 00
Bookkeepers, 6 at $1,200	7,200 00
Clerk	2,400 00
Clerk (to take effect as of February 15, 1911)	2,250 00

Clerks, 3 at $1,950	5,850 00
Clerks, 6 at $1,800	10,800 00
Clerks, 9 at $1,650	14,850 00
Clerks, 12 at $1,500	18,000 00
Clerks, 18 at $1,350	24,300 00
Clerks, 14 at $1,200	16,800 00
Clerks, 15 at $1,050	15,750 00
Clerks, 5 at $900	4,500 00
Clerks, 3 at $600	1,800 00
Clerks, 3 at $540	1,620 00
Clerk	480 00
Clerks, 3 at $300	900 00
Financial Clerk	2,400 00
Financial Clerk	1,950 00
Financial Clerk	1,800 00
Financial Clerks, 2 at $1,650	3,300 00
Financial Clerk	1,500 00
Financial Clerk	1,050 00
Collection Clerk	1,650 00
Collection Clerks, 2 at $1,500	3,000 00
Collection Clerks, 3 at $1,350	4,050 00
Clerk with special knowledge of handwriting	1,050 00
Searchers, 2 at $1,200	2,400 00
Searchers, 12 at $1,050	12,600 00
Searcher	900 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	900 00
Stenographer and Typewriter	750 00
Typewriting Copyist	1,050 00
Bank Messengers, 5 at $1,200	6,000 00
Messengers, 2 at $1,200	2,400 00
Messengers, 2 at $1,050	2,100 00
Balance Unassigned	1,310 00
	$273,760 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented reports, as follows:

Report of the Comptroller, the President of the Borough of Richmond and the Chief Engineer of the Board, to whom was referred, on April 27, 1911, a communication presented by Mr. Daniel F. Kiely offering to sell to the City the plants and franchise of the South Shore Water Works Company of Staten Island;

(On July 6, 1911, the above matter was laid over for one week.)

Report of the Comptroller and the Chief Engineer of the Board, to whom were referred on June 15, 1911, specifications submitted by the Commissioner of Water Supply, Gas and Electricity for flaming arc lamps to be installed where deemed advisable in public buildings of the City;

(On July 6, 1911, the above matter was laid over for one week.)

Report of the Committee, consisting of the Comptroller and the Chief Engineer of the Board, to whom was referred on October 21, 1910, a communication from the Commissioner of Water Supply, Gas and Electricity relative to the acquisition of private water companies, in which he recommended that a special appropriation be made to conduct an investigation to determine the value of these private companies, etc.

(On July 6, 1911, the above matter was laid over for one week.)

Which were laid over one week.

The Secretary presented the following communication from the Commissioner of Street Cleaning requesting the revision of the schedules of salaries and wages for the year 1911, necessitating the transfer of $2,800, together with a report of the Comptroller recommending that said request be disapproved, as the proposed transfer is from Wages to Salaries, which is contrary to the resolutions governing the 1911 Budget:

Department of Street Cleaning of The City of New York, 13-21 Park Row, New York, June 19, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment,* The City of New York:

Sir—I have to request that a further revision of schedule and transfer within the appropriation for 1911 amounting to the sum of twenty-eight hundred dollars ($2,800) be allowed this Department for the year 1911, as follows:

From

Administration, Borough of Manhattan, Division of Sweeping—	
889. Wages, Reglar Employees	$1,400 00
Administration, Borough of Manhattan, Division of Final Disposition—	
894. Wages, Regular Employees	700 00
Administration, Borough of Brooklyn, Division of Sweeping—	
915. Wages, Regular Employees	700 00
	$2,800 00

To

General Administration, Office of the Commissioner—	
861. Salaries	$700 00
Administration, Borough of Manhattan, Office of the Deputy Commissioner—	
884. Salaries	700 00
Administration, Borough of Brooklyn, Office of the Deputy Commismisioner—	
910. Salaries	700 00
Administration, Borough of The Bronx, Office of the Deputy Commissioner—	
935. Salaries	700 00
	$2,800 00

The reason for the above transfers is to enable me to employ four Chauffeurs to supplement the regular force, as the adoption of the night system of removing ashes and garbage requires extra supervision on the part of the administrative officers and it has become necessary to make additional use of the automobile service day and night. Respectfully, WM. H. EDWARDS, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 19, 1911, the Commissioner of Street Cleaning requested a revision of schedules of salaries and wages, necessitating a transfer of $2,800, within appropriations to this Department for the year 1911. In connection therewith I report as follows:

It is proposed to transfer the $2,800 from Schedules Nos. 889, 894 and 915, sup- 19, 1911, for the revision of schedules of Salaries and Wages Nos. 889, 894, 915, 861, 884, 910 and 935, supporting appropriations for salaries.

The proposed transfer from wages to salaries is contrary to the resolutions governing the 1911 Budget.

I recommend, therefore, that the request be not approved. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the request of the Commissioner of Street Cleaning dated June 19, 1911, for the revision of schedules of Salaries and Wages Nos. 889, 894, 915, 861, 884, 910 and 935 for the year 1911, involving the transfer of twenty-eight hundred dollars ($2,800) within said accounts, be and the same is hereby disapproved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The matter was ordered filed and the Secretary was directed to transmit a copy of the report of the Comptroller to the Commissioner of Street Cleaning.

The Secretary presented the following report of the Comptroller, recommending the adoption of a resolution making effective as of January 1, 1911, the modification of three wage schedules, Nos. 1667, 1692 and 1703, for temporary employees in the office of the President of the Borough of Manhattan, instead of June 12, 1911, as per resolution adopted by the Board on June 15, 1911:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 15, 1911, the Board of Estimate and Apportionment approved modification of three wage schedules for temporary employees, in the office of the President of the Borough of Manhattan. The revision was made effective as of June 12, 1911. The change was for payment of additional amounts due Mechanics and Laborers since January 1, 1911, for working seven days a week instead of the six days provided for in the schedule.

I recommend the adoption of the attached resolution making the revision effective as of January 1. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Office of the President of the Borough of Manhattan, for the year 1911, to take effect as of January 1, 1911, as follows:

President of the Borough of Manhattan.

Bureau of Highways, Maintenance of Highways—

1667. Wages, Temporary Employees:

Foremen (3,300 days), at a day	$4 00
Foremen (4,500 days), at a day	3 50
Assistant Foremen (700 days), at a day	3 50
Assistant Foremen (4,500 days), at a day	2 50
Pavers (15,000 days), at a day	5 00
Rammers (7,445 days), at a day	4 00
Laborers (300 days), at a day	3 00
Laborers (250 days), at a day	2 75
Laborers (44,718 days), at a day	2 50
Draftsmen (30 months) at per annum	1,500 00

Budgetary part allowance, $238,562.50.

Bureau of Public Buildings and Offices, General Maintenance, Mechanical Force—

1692. Wages, Temporary Employees:

Varnishers, at $4 a day (360 days)	$1,440 00
Carpenters, at $5 a day (84 days)	420 00
Painters, at $4 a day (1,800 days)	7,200 00
Engineers, at $6 a day (10 days)	60 00
Engineers, at $5 a day (6 days)	30 00
Engineers, at $4.50 a day (430 days)	1,935 00
Firemen, at $3 a day (900 days)	2,700 00
Oilers, at $3 a day (155 days)	465 00
Electricians, at $4.50 a day (50 days)	225 00
Tinsmiths, at $4.50 a day (1 day)	4 50
Tinsmiths, at $4.75 a day (30 days)	142 50
Foreman Wireman, at $5 a day (30 days)	150 00
Wireman, at $4.50 a day (40 days)	180 00
Foreman Plumber, at $5.50 a day (10 days)	55 00
Cabinet Maker, at $4.50 a day (174 days)	783 00
Assistant Foreman, at $4 a day (15 days)	60 00
Assistant Foreman, at $2.50 a day (20 days)	50 00
Laborers, at $2.50 a day (1,000 days)	2,500 00
Sewer Cleaners, at $2.50 a day (152 days)	380 00
	$18,780 00

Bureau of Public Buildings and Offices, Public Baths and Comfort Stations—

1703. Wages, Temporary Employees:

Attendants (male), at $900 per annum (200 months)	$15,000 00
Attendants (female), at $720 per annum (96 months)	5,760 00
	$20,760 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Brooklyn requesting, and report of Comptroller relative to the modification of Salary Schedule No. 1769, supporting the appropriation made in the Budget for the year 1911 for the office of the President of the Borough of Brooklyn, providing for the promotion of a Messenger at $1,050 per annum to a Clerkship at $1,200 per annum;

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, June 22, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—I respectfully request that you recommend to the Board of Estimate and Apportionment the adoption of a resolution modifying salary schedule No. 1769, Bureau of Highways, as follows:

Eliminate line 1, "1 Messenger at $1,050," and substitute therefor "1 Clerk at $1,200."

This request is made for the purpose of promoting Percival Purcell at present employed as Messenger to the position of Clerk, in our Bureau of Highways.

I would thank you to give this matter early consideration.

Yours very truly, L. H. POUNDS, Acting Borough President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 22, 1911, the Acting President of the Borough of Brooklyn requested modification of the salary schedule for the Bureau of Highways, Administration, No. 1769, in his office for the year 1911. In connection therewith I report as follows:

The request is for the promotion of Percival Purcell from the position of Messenger at $1,050 per annum to Clerk at $1,200. Mr. Purcell was appointed on May 29, 1906, as Automobile Engineman at $3 a day. On January 27, 1909, he was promoted to Messenger at the present rate. The $150 necessary for the increase is to be transferred from an unassigned balance.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1769.	Clerk, at $1,200	......	$1,200 00	......	$600 00
	Messenger, $1,050	$1,050 00	......	$525 00	......
	Unassigned balance	150 00	......	75 00	......
		$1,200 00	$1,200 00	$600 00	$600 00

The attached resolution, if adopted, will grant request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Brooklyn, to take effect as of July 1, 1911, as follows:

Bureau of Highways, Administration—

1769. Salaries:

Superintendent	$5,000 00
Chief Clerk	3,000 00
Supervisor of Complaints	2,550 00
Clerks, 3 at $2,100	6,300 00
Clerk	1,800 00
Clerk	1,500 00
Clerk	1,200 00

Clerk	900 00
Cashier	1,200 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Automobile Engineman	1,200 00
Unassigned balance	45 00
	$26,945 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Brooklyn requesting, and report of the Comptroller relative to, the modification of salary schedule No. 1765, supporting the appropriation made in the Budget for the year 1911 for the office of said Borough President, providing for a Consulting Engineer at $7,200 per annum and for the increase in salary of the Secretary to the Commissioner of Public Works from $3,000 to $3,300, and of the Confidential Stenographer to the President from $1,500 to $1,800 per annum:

June 28, 1911.

Hon. William A. Prendergast, *Comptroller,* City of New York:

Dear Sir—I respectfully request that you prepare a resolution for adoption by the Board of Estimate and Apportionment modifying salary schedule No. 1765, General Administration, President of the Borough, as per schedule attached.

This modification is for the purpose of changing the salaries of the Consulting Engineer, Secretary to Commissioner of Public Works and Confidential Stenographer in accordance with grade recently established, also provides for the increase of 1 Clerk from $1,800 to $1,950.

I would further request that this matter be given early consideration, changes to date from July 1, 1911. Yours very truly,

ALFRED E. STEERS, President, Borough of Brooklyn.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 6, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the President of the Borough of Brooklyn, under date of June 28, 1911, for modification of the salary schedule for General Administration in his office for 1911, I report as follows:

The request provides for the salary of George W. Tillson, the new Consulting Engineer, at $7,200 per annum, instead of the $8,000 paid the former incumbent. It is also proposed to increase James M. Power, Secretary to the Commissioner of Public Works, from $3,000 to $3,300; Harry Ball, Confidential Stenographer to the President, from $1,500 to $1,800, and William Rutter, Clerk, from $1,800 to $1,950 per annum. The $50 balance between these increases and the $800 decrease on the salary of the Consulting Engineer is to be added to an unassigned balance.

The grades of Consulting Engineer, Secretary to the Commissioner of Public Works and Confidential Stenographer, for the proposed rates were approved for establishment by the Board of Estimate and Apportionment on June 13, 1911, and the rates were fixed by the Board of Aldermen on June 20 and 27, 1911. The establishment was for the incumbents mentioned.

It does not appear from an examination of the records in the Department of Finance that the grade of Clerk at $1,950 per annum has been established, pursuant to the provisions of section 56 of the Charter. Pending establishment, therefore, it is not possible to grant this item in the request.

The following schedule shows the recommended changes in detail:

		Schedule Transfer		Cash Transfer.	
No.	Schedule Line.	Decrease.	Increase.	Decrease.	Increase.
1765.	Consulting Engineer, 1, at $8,000	$8,000 00	....	$4,000 00	....
	Consulting Engineer, at $7,200	....	$7,200 00	....	$3,600 00

No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
	Secretary to Commissioner of Public Works, 1 at $3,000..	3,000 00	......	1,500 00	......
	Secretary to Commissioner of Public Works, at $3,300....	....	3,300 00	....	1,650 00
	Stenographers and Typewriters, 5 at $1,500.........	1,500 00	....	750 00	....
	Confidential Stenographer, at $1,800	....	1,800 00	....	900 00
	Balance unassigned	....	200 00	....	100 00
		$12,500 00	$12,500 00	$6,250 00	$6,250 00

The attached resolution, if adopted, will grant the request, with the exception of the Clerk at $1,950 per annum. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Brooklyn for the year 1911, as follows:

President, Borough of Brooklyn.

General Administration—

1765. Salaries:

Borough President	$7,500 00
Commissioner of Public Works	6,000 00
Assistant Commissioner of Public Works	5,000 00
Consulting Engineer	7,200 00
Assistant Engineer	3,000 00
Secretary of the Borough	3,500 00
Secretary to the President	4,000 00
Secretary to the Commissioner	3,300 00
Chief Clerk	3,000 00
Bookkeeper	3,000 00
Bookkeeper	1,800 00
Executive Clerk	2,400 00
Confidential Inspector	2,100 00
Stenographer to Local Boards	2,100 00
Stenographers and Typewriters, 4 at $1,500	6,000 00
Confidential Stenographer	1,800 00
Stenographer and Typewriter	1,200 00
Clerks, 2 at $2,100	4,200 00
Clerks, 3 at $1,800	5,400 00
Clerk	1,650 00
Clerks, 2 at $1,200	2,400 00
Clerks, 2 at $1,500	3,000 00
Clerk	1,050 00
Clerks, 2 at $750	1,500 00
Clerk	600 00
Clerk	540 00
Automobile Engineman	1,500 00
Automobile Engineman	1,200 00
Messenger	1,050 00
Unassigned balance	725 00
	$87,715 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller recommending, approval of the schedules, as revised, for employees of said Department, for the Engineering Construction force, to be effective as of July 1, 1911, providing for certain changes in the schedules, to facilitate the audit of the weekly payrolls:

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, N. Y., June 28, 1911.

Hon. William A. Prendergast, *Comptroller,* The City of New York, 280 Broadway, New York, N. Y.:

Sir—I have to request a modification of the schedule for the Construction Division of this Department, as follows:

Construction Division.

Wages, Regular Employees—Drop line item now reading Riveters, 8 at $5 per day, 276 days; Painters, 49 at $4 per day, 276 days.

Wages, Temporary Employees—Drop line item now reading Bridge Painters, at $4 per day, 20,000 days.

Proposed Schedule for Manhattan Bridge and Queensboro Bridge Divisions.

Wages, Regular Employees, Corporate Stock Force—Add line item Riveters, 8 at $5 per day, 276 days; Painters, 49 at $4 per day, 276 days.

Wages, Temporary Employees, Corporate Stock Force—Add line item Painters and Bridge Painters, at $4 per day, 20,000 days.

The employees herewith transferred from the Construction Division to the Manhattan Bridge and Queensboro Bridge Divisions were not provided for in the proposed authorization of $200,000, for salaries and wages for the Construction Division of this Department, requested at the recent hearing before the Corporate Stock Budget Committee. The 8 Riveters will be carried on the Tax Levy Budget Schedule in 1912, and the Painters and the Temporary Employees will be dropped from the Construction Division when the painting of the Manhattan and Queensboro Bridges is completed.

Early action would be appreciated by this Department. Copy of revised schedule herewith. Respectfully, ARTHUR J. O'KEEFFE, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Commissioner of Bridges requested modification of two schedules for Wages of Regular Employees and Wages of Temporary Employees, of the Construction Division in his Department for 1911. In connection therewith I report as follows:

It is proposed to drop 8 Riveters at $5 for 276 days and 49 Painters at $4 for 276 days from the schedule for Wages, Regular Employees, and to drop the line item Painters and Bridge Painters at $4 (20,000 days) from the schedule for Wages, Temporary Employees.

The employees dropped are to be provided for in additional schedules for the Manhattan Bridge and Queensboro Bridge Divisions. No changes are proposed in the number of incumbents, rate of compensation or number of days allowed in any class of employees.

The proposed schedule changes will facilitate the audit in the Department of Finance of weekly payrolls chargeable to corporate stock funds.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for employees of the Department of Bridges paid from other than budgetary accounts for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Bridges.

Engineering Construction Force—

Salaries, Regular Employees:

Consulting Engineers, 3 at	$7,500 00
Assistant Engineer, 1 at	$6,000 00
Assistant Engineers, 2 at	5,000 00
Assistant Engineers, 3 at	4,000 00

Assistant Engineer, 1 at	3,500 00
Assistant Engineers, 3 at	3,000 00
Assistant Engineers, 3 at	2,700 00
Assistant Engineers, 5 at	2,400 00
Assistant Engineers, 7 at	2,100 00
Assistant Engineers, 9 at	1,800 00
Electrical Engineer, 1 at	1,200 00
Transitmen, 11 at	1,800 00
Transitman, 1 at	1,500 00
Structural Steel Draftsmen, 10 at	1,800 00
Architectural Draftsman, 1 at	1,800 00
Leveler, 1 at	1,350 00
Leveler, 1 at	1,200 00
Toolmen, 2 at	1,200 00
Steel Inspector, 1 at	1,650 00
Clerk, 1 at	1,500 00
Rodmen, 5 at	1,200 00
Axemen, 5 at	900 00
Axeman (312 days), 1 at a day	4 50
Inspector of Masonry (312 days), 1 at per day	5 00

Salaries, Temporary Employees:

Inspectors of Masonry (1,000 days), at per day	5 00

Wages, Regular Employees:

Watchman (365 days), 1 at per day	3 00
Watchmen (365 days), 2 at per day	2 50
Foreman Stone Mason (276 days), 1 at per day	4 00
Laborers (312 days), 2 at per day	3 00
Laborer (365 days), 1 at per day	2 50
Laborers (312 days), 5 at per day	2 50

Manhattan Bridge and Queensboro Bridge.

Construction Force—

Wages, Regular Employees:

Riveters (276 days), 8 at per day	5 00
Bridge Painters (276 days), 49 at per day	4 00

Wages, Temporary Employees:

Painters and Bridge Painters (20,000 days), at per day	4 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, the modification of salary schedules Nos. 473 and 503, supporting the appropriation made in the Budget for the year 1911, for said Department, to be effective as of July 1, 1911, providing for the increase in salary of an Assistant Engineer, from $4,000 to $5,000 per annum, and for the elimination of a Leveler, at $1,500 per annum, involving the transfer of $375:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 26, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—An effort was made last year to provide in the appropriations for this year an increase in the salary of the Borough Engineer for the Boroughs of Manhattan and The Bronx, from $4,000 to $5,000 per annum. The increase desired was not provided for in the salary schedule nor in the appropriation properly chargeable. There has been a saving by the elimination of unnecessary positions in another account, and I should like to use part of that money by transfer to make this promotion. The Chief Engineer has highly recommended this Engineer, saying that he is one of the most efficient men in this or any other of our municipal Departments, unexcelled in his constant attention to and untiring efforts in the prosecution of his work and zeal in the discharge of his duties.

I therefore respectfully request that the Board of Estimate and Apportionment approve a modification of the enclosed salary schedules supporting accounts Nos.

473 and 503, and that they also transfer the sum of $375 from account No. 503 to account No. 473, each of 1911. Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of a budgetary part allowance and a regular salary schedule in his Department for 1911, involving a transfer of $375. In connection therewith I report as follows:

In No. 473, Office of Borough Engineer, Boroughs of Manhattan and The Bronx, Salaries, Maintenance and Construction Force, it is proposed to increase the salary of Henry B. Machen, an Assistant Engineer, from $4,000 to $5,000 per annum.

Mr. Machen was appointed as Assistant Engineer on August 31, 1905, at $2,400 per annum. On May 1, 1906, he was increased to $2,700; on April 1, 1907, to $3,000; and June 1, 1909, to the present rate. Since his appointment he has been in charge of the construction, operation and maintenance of the High Pressure Fire Service System. At present he is Borough Engineer for the Boroughs of Manhattan and The Bronx.

The Commissioner states that Mr. Machen is highly recommended for the increase by the Chief Engineer of the Department.

Mr. Machen's salary is pro-rated three-fourths against Budget funds and one-fourth against corporate stock funds. The requested increase of $1,000, therefore, would add $750 to the present budgetary part allowance and if effective, as of July 1, 1911, will require a credit transfer of $375 to No. 473.

In No. 503, Distribution, Maintenance of Croton and Bronx Systems, Salaries, Maintenance Force, it is proposed to drop a Leveler, at $1,500, and use a portion of the saving for the required credit transfer to No. 473. As a schedule transfer of only $750 is required the balance is to be set up in Schedule No. 503 as accrued balance of transfer to No. 473, $250, and the remaining $500 scheduled as an unassigned balance.

The necessary schedule and cash transfers in detail are as follows:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
473.	Assistant Engineer, 1 at $4,000	$3,000 00	....	$1,500 00	....
	Assistant Engineer, at $5,000..	....	$3,750 00	....	$1,875 00
503	Leveler, 1 at $1,500..........	1,500 00	....	750 00	....
	Accrued balance of transfer to No. 473	....	250 00	....	125 00
	Unassigned balance	....	500 00	....	250 00
		$4,500 00	$4,500 00	$2,250 00	$2,250 00

I recommend the adoption of the attached resolutions granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Water Supply, Gas and Electricity, to be effective as of July 1, 1911, as follows

Department of Water Supply, Gas and Electricity.

Water Supply, Boroughs of Manhattan and The Bronx, Administration, Office of Borough Engineer—

473. Salaries, Maintenance and Construction Force:

Assistant Engineer	1 at	$5,000 00
Assistant Engineer	1 at	3,000 00
Stenographer and Typewriter	1 at	1,350 00

Budgetary part allowance, $5,175.

Water Supply, Boroughs of Manhattan and The Bronx, Distribution, Maintenance of Croton and Bronx Systems—

503. Salaries, Maintenance Force:

Assistant Engineer	$3,000 00
Inspector	1,800 00
Inspector	1,350 00
Accrued balance of transfer to No. 473	250 00
Unassigned balance	500 00
	$6,900 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Water Supply, Gas and Electricity for the year 1911, as follows:

From

Water, Supply, Boroughs of Manhattan and The Bronx, Distribution, Maintenance of Croton and Bronx Systems—

503. Salaries, Maintenance Force $375 00

To

Water Supply, Boroughs of Manhattan and The Bronx, Administration, Office of Borough Engineer—

473. Salaries, Maintenance and Construction Force........ $375 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the Department of Water Supply, Gas and Electricity, requesting, and report of the Comptroller relative to, the modification of schedules of employees of said Department, Engineering Bureau, for the year 1911, to be effective as of July 1, 1911, with the exception of the line—"Assistant Engineers, 4 at $3,000," which shall take effect as of May 23, 1911, providing for the addition of an Assistant Engineer at $3,000 and two Draftsmen at $1,500 per annum each; the elimination of a Draftsman at $1,350 per annum, for increases in salary of two Rodmen, one from $900 to $1,050 per annum and the other from $960 to $1,050 per annum.

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 5, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—On account of the great amount of work to be done in the Designing Division of the Engineering Bureau it is necessary to have two more Draftsmen, whom I wish to appoint at a salary of $1,500 each.

There is a vacancy in the corporate stock salary schedule of the Engineering Bureau for one Draftsman at $1,350, and I desire to fill that vacancy with one of the $1,500 appointments.

To provide for these appointments a modification of the schedule is necessary, and I request that the Board of Estimate and Apportionment approve the modification for the two lines for Draftsmen that now read "10 at $1,500" and "4 at $1,350" so that they will read "12 at $1,500"; "3 at $1,350." Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 26, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—The schedule for "Salaries, Regular Employees, Engineering Bureau, Corporate Stock Force," contain provision for 13 Rodmen at $1,050 each per annum; 1 Rodman at $960 per annum; 1 Rodman at $900 per annum, as well as for other at other rates.

I desire to promote to the $1,050 rate two men now receiving—one, $960 per annum, and the other $900 per annum, and respectfully request that the Board of Estimate and Apportionment modify the schedule above named so that the line reading "13 Rodmen at $1,050 per annum" will read "15 Rodmen at $1,050 per annum," omitting from the schedule the two lines which read "one at $960 and one at $900."

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 30, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In compliance with the judgment of the Court I reinstated on May 23, an Assistant Engineer at a salary of $3,000 per annum, which will be paid out of the corporate stock funds of this Department.

The following schedule for the corporate stock force contains no provision for the payment of this Engineer, and I respectfully request that the Board of Estimate and Apportionment approve the enclosed modification of the salary schedule.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 5, 26 and 30, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of a schedule for the salaries of regular employees for the Corporate Stock Force of the Engineering Bureau, in his Department for 1911. In connection therewith, I report as follows:

It is proposed to add an Assistant Engineer at $3,000 and two Draftsmen at $1,500 per annum each, and drop one Draftsman at $1,350. The Commissioner states that the additional Draftsmen are needed on account of a great amount of work to be done in the Designing Division of the Engineering Bureau. He also states that a vacancy in the position of Draftsman at $1,350, permits of the dropping of one incumbent. The Assistant Engineer was reinstated on May 23, 1911, pursuant to a Court order.

It is also proposed to increase the salaries of James W. Woods, appointed as Rodman, at $900, on April 6, 1906, and Michael J. Kearney, appointed as Rodman, at $960, on May 3, 1906, to $1,050 each.

The schedule transfers in detail are as follows:

Line Items.	Schedule Transfer.	
	Decrease.	Increase.
Engineering Bureau, Corporate Stock Force—		
Salaries, Regular Employees:		
Draftsmen, 10 at $1,500	....	$3,000 00
Draftsmen, 4 at $1,350	$1,350 00	....
Assistant Engineers, 3 at $3,000	....	3,000 00
Rodmen, 13 at $1,050	....	2,100 00
Rodman, 1 at $960	960 00	....
Rodman, 1 at $900	900 00	....
	$3,210 00	$8,100 00

On June 8, 1911, a modification was approved by your Board decreasing the schedule total by $400, or $100 more than the present requested increase in the salaries of Rodmen.

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for employees of the Department of Water Supply, Gas and Electricity paid from other than budgetary accounts for the year 1911, to be effective as of July 1, 1911, with the exception of the line:

Assistant Engineers .... 4 at $3,000 00

—which shall take effect as of May 23, as follows:

Department of Water Supply, Gas and Electricity.

Engineering Bureau—

Salaries, Regular Employees, Corporate Stock Force:

Consulting Engineer	1 at	$5,000 00
Division Engineer	1 at	5,000 00
Division Engineer	1 at	4,500 00
Assistant Engineers	2 at	4,800 00
Assistant Engineer	1 at	3,500 00
Assistant Engineer	1 at	3,250 00
Assistant Engineers	4 at	3,000 00
Assistant Engineers	2 at	2,800 00
Assistant Engineer	1 at	2,700 00
Assistant Engineers	2 at	2,550 00
Assistant Engineers	1 at	2,500 00
Assistant Engineer	3 at	2,400 00
Assistant Engineers	1 at	2,250 00
Assistant Engineer	3 at	2,100 00
Assistant Engineers	1 at	2,000 00
Assistant Engineers	7 at	1,800 00
Assistant Engineer	1 at	1,500 00
Mechanical Engineer	1 at	4,800 00
Mechanical Engineer	1 at	4,000 00
Mechanical Engineer	1 at	2,400 00
Mechanical Engineer	1 at	1,800 00
Transitmen	12 at	1,800 00
Transitmen	6 at	1,650 00
Transitmen	4 at	1,500 00
Transitmen	2 at	1,350 00
Transitman	1 at	1,050 00
Computers	2 at	1,800 00
Draftsman	1 at	2,250 00
Draftsman	1 at	2,100 00
Draftsmen	3 at	1,800 00
Draftsmen	4 at	1,650 00
Draftsmen	12 at	1,500 00
Draftsmen	3 at	1,350 00
Draftsmen	19 at	900 00
Levelers	4 at	1,500 00
Levelers	4 at	1,350 00
Levelers	2 at	1,200 00
Rodmen	10 at	1,200 00
Rodmen	15 at	1,050 00
Rodman	1 at	1,000 00
Axeman	14 at	900 00
Axeman	5 at	840 00
Stenographer and Typewriter	1 at	1,350 00
Stenographers and Typewriters	2 at	1,200 00
Stenographer and Typewriter	1 at	1,050 00
Stenographers and Typewriters	2 at	900 00
Auditor of Accounts	1 at	2,800 00
Clerk	1 at	2,700 00
Clerk	1 at	1,800 00
Clerk	1 at	1,500 00
Clerks	2 at	1,350 00
Clerk	1 at	1,200 00
Clerks	2 at	900 00
Clerk	1 at	600 00
Clerks	3 at	300 00
Expert File Clerks	2 at	750 00
Purchasing Agent	1 at	2,000 00
Keeper	1 at	1,500 00
General Inspector	1 at	3,000 00
Inspectors	28 at	1,800 00
Inspectors	4 at	1,500 00
Inspectors	2 at	1,350 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Health requesting, and report of the Comptroller recommending, approval of the schedules as revised for said Department Laboratories, Research and Vaccine, Antitoxin and Vaccine Force, for the year 1911; providing for the addition of a Laborer at $600 per annum:

Department of Health, City of New York, Southwest Corner of 55th street and 6th avenue, Borough of Manhattan, Office of the Secretary, New York, June 28, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held June 27, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to approve of the following further modifications of schedules for employees of the Department of Health paid from other than budgetry funds: Laboratories, Research and Vaccine, Antitoxin and Vaccine Force, Wages of Temporary Employees;

Change item, "Laborers, 3 at $600" to read "Laborers, 4 at $600."

ENGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Health requested modification of the non-budgetary schedules of salaries and wages for the special and trust funds entitled "Antitoxin Fund" and "Vaccine Fund," in the Department of Health for the year 1911.

The only change is the addition of a Laborer at $600 per annum to the temporary force employed in the Research and Vaccine Laboratories.

The following table shows the line item change:

Schedule Line.	Schedule Transfer.	
	Decrease.	Increase.
Laborers, 3 at $600	......	$600 00

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves schedules of salaries and wages, as revised, for the special and trust funds, entitled "Antitoxin Fund" and "Vaccine Fund," in the Department of Health for the year 1911, as follows:

Department of Health.

Laboratories, Research and Vaccine, Antitoxin and Vaccine Force—

Salaries:	
Assistant Director, Bacteriological Laboratories	$2,100 00
Veterinarian	1,500 00
Wages, Temporary Employees:	
Laboratory Assistant	900 00
Laboratory Assistants, 4 at	750 00
Laborer	780 00
Laborers, 2 at	720 00
Laborers, 4 at	600 00
Laborers, 3 at	480 00
Helpers, 4 at	600 00
Helpers, 6 at	480 00
Helpers, 2 at	420 00

Helpers, 4 at	360 00
Helpers, 4 at	300 00
Helper	264 00
Helpers, 2 at	120 00
Carpenter	720 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report o the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications, as amended, and estimates of cost for fire stops in the attics of various schools in the Borough of Manhattan, and for heating and ventilating apparatus, etc., in the new addition to the Boys' High School, Brooklyn, Department of Education:

Department of Education, City of New York, Board of Education, Park Avenue and 59th Street, New York, June 27, 1911.

Hon. W. A. Prendergast, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from C. B. J. Snyder, Superintendent of School Buildings, under date of June 27, 1911, reading as follows:

"I am forwarding herewith plans and specifications for the following work, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment, in accordance with the resolution adopted by that Board on January 5, 1911:

Various, Manhattan—Fire Stops in the Attics.

	Approximate Cost.
Item 1	$1,422 00
Item 2	1,560 00
Item 3	800 00
Item 4	3,960 00
Item 5	2,522 00
Item 6	1,881 00
Item 7	1,580 00

Boys' High School, Brooklyn—Installing Heating and Ventilating Apparatus, and Item 2, Installing Temperature Regulation in New Addition of.

Item 1	$58,000 00
Item 2	5,000 00"

The plans and specifications referred to in the foregoing communication are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—The Board of Education, in a communication dated June 27, 1911, requested approval by the Board of Estimate and Apportionment of plans, specifications and estimates of cost for the following work:

Various Public School Buildings, Borough of Manhattan—Fire Stops in Attics.

	Approximate Cost.
Item 1	$1,422 00
Item 2	1,560 00
Item 3	800 00
Item 4	3,960 00
Item 5	2,522 00
Item 6	1,881 00
Item 7	1,580 00

Addition to Boys' High School, Borough of Brooklyn.

Item 1, Installing heating and ventilating apparatus	$58,000 00
Item 2, Installing temperature regulation	5,000 00

An examination of these plans and specifications shows that fire stops are to be constructed in the attics of 78 school buildings. These fire stops consist of cross partitions of plaster board or galvanized sheet metal, provided with doors of metal where necessary. Wooden ladders to the attics are to be replaced with iron ladders, and at Public School 49 the side walls of the bridge connecting the two buildings are to be covered with metal. The work specified when completed will, in the event of fire, serve to retard its spread through the attics of the various buildings, thereby affording better fire protection than exists at present.

The specifications as presented to the Finance Department required a slight modification to paragraph 1, page 10, in order to make clear the meaning. This has been agreed to by the Department of Education, so that the plans and specifications in their present form are satisfactory and the estimates of cost are reasonable.

There is a sufficient balance in funds previously authorized by the Board of Estimate and Apportionment to pay the cost of this work.

At the Boys' High School, Borough of Brooklyn, the general construction of the addition is now under way, and it is necessary to have the heating and ventilating work proceed at the same time. The plans and specifications call for the installation in the addition of heating and ventilation by means of the single duct plenum system such as now exists in the old portion of the building.

The specifications as presented required that the work be completed in 60 days. This time is too short for the completion of the contract and at the request of the Department of Finance the Department of Education altered the specifications so as to allow 100 days for the completion of the work.

In their present form the plans and specifications are satisfactory and the estimates of cost reasonable.

Funds for this work were authorized by the Board of Estimate and Apportionment June 3, 1910.

I submit for adoption the resolution appended hereto. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the plans, specifications, as amended, and estimates of cost for the following work under the jurisdiction of the Department of Education:

For fire stops in the attics of various schools in the Borough of Manhattan, as follows:

Item 1. Estimated cost, one thousand four hundred and twenty-two dollars ($1,422).

Item 2. Estimated cost, one thousand five hundred and sixty dollars ($1,560).

Item 3. Estimated cost, eight hundred dollars ($800).

Item 4. Estimated cost, three thousand nine hundred and sixty dollars ($3,960).

Item 5. Estimated cost, two thousand five hundred and twenty-two dollars ($2,522).

Item 6. Estimated cost, one thousand eight hundred and eighty-one dollars ($1,881).

Item 7. Estimated cost, one thousand five hundred and eighty dollars ($1,580).

New addition to Boys' High School, Borough of Brooklyn:

Item 1. Installing heating and ventilating apparatus; estimated cost, fifty-eight thousand dollars ($58,000).

Item 2. Installing temperature regulating; estimated cost, five thousand dollars ($5,000).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($14,000) for furnishing and installing additional electrical feeder cables on the Williamsburgh Bridge, under the jurisdiction of Department of Bridgges:

Department of Bridges, City of New York, 13 to 21 Park Row, Manhattan, N. Y., June 28, 1911.

Hon. William A. Prendergast, *Comptroller, City of New York:*

Dear Sir—Pursuant to a resolution adopted by the Board of Estimate and Apportionment on January 5, 1911, I transmit herewith, for your examination and report to the said Board, plans, specifications and estimate of cost of the proposed contract for Furnishing and Installing Electrical Feeder Cables on the Williamsburgh Bridge. The plans are shown on two drawings, numbered 5124 and 5125, and the estimate of cost of the proposed contract is $14,000.

The proposed contract provides for the placing of additional electrical feeder cables on the bridge for the surface railway on the northerly pair of tracks. The present electrical feeder cables were installed by the City and are a part of the equipment of the bridge. The additional cables, which will also be a part of the equipment of the bridge, are needed in order to provide additional power, so that the railway company can increase its service on the bridge, as it has been directed to do by the Public Service Commission.

The proposed contract is chargeable to the fund of the Department of Bridges, entitled C-DB-39, New East River Bridge Fund, and the balance unincumbered in this fund is $16,158.69.

Yours truly, ARTHUR J. O'KEEFFE, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 8, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Commissioner of Bridges requested approval of plans, specifications and estimated cost of $14,000 for furnishing and installing electrical feeder cables on the Williamsburgh Bridge.

The contract provides for furnishing and installing about 2,750 feet of lead covered cable, about 11,020 feet of weatherproof cable, taps, supports, insulators, switches, etc., on the Williamsburgh Bridge.

The additional electrical feeder cables are needed to provide additional power, so that the Railway Company can increase its service on the bridge, as it has been directd to do by the Public Service Commission.

The cost of the work is to be charged against the Corporate Stock Fund entitled, "C-DB-39, New East River Bridge Fund." There is sufficient balance in the fund to pay for the proposed work.

The plans and specifications appear to be complete and satisfactory and the estimate of cost reasonable.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimate of cost, fourteen thousand dollars ($14,000), for furnishing and installing additional electrical feeder cables on the Williamsburgh Bridge, under the jurisdiction of the Department of Bridges.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the specifications for two gas-electric chassis to be used as tractors for water towers by said Department, at a cost not to exceed $5,200 each:

Fire Department of The City of New York, Office of the Commissioner, June 24, 1911.

Hon. William A. Prendergast, *Comptroller of The City of New York:*

Sir—I have the honor to request approval of the attached specifications for gas-electric chassis and request authority to purchase, at public letting, two apparatus of this type to be used as tractors for water towers. The cost, estimated at $5,500 each, is to be charged against corporate stock issue, accounts 10-A and 10-B, Purchase of New Apparatus.

Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 8, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 24, 1911, the Fire Commissioner requested approval of the specifications and estimate of cost, $5,500 each, of two gas-electric chassis to be used as tractors for water towers.

On February 27, 1911, former Fire Commissioner Waldo requested the Board of Aldermen to authorize him to purchase a similar tractor at a cost not to exceed $5,200 without contract at public letting. Permission was not given and, after public advertisement, on April 7, 1911, one bid of $5,850 was received and accepted.

The specifications upon which the above contract was made were the same as that now submitted for approval except that the contractor was required to supply an extra wheel with 3-horsepower motor, the cost of which was stated by the Commissioner to be $650.

The City has therefore purchased a similar tractor at a cost of $5,200, and there seems no good reason why a higher estimate of cost should now be approved.

While the contract will be awarded at public letting, only one legitimate bid can be received. The specifications do not call for a patented article, but there is at present only one firm supplying tractors of the type specified.

It is proposed to charge the cost of one tractor to the Corporate Stock Fund entitled "C-FD-10A, Fire Department, New Apparatus, Boroughs of Manhattan, The Bronx and Richmond," and the other to the Corporate Stock Fund "C-FD-10B, Fire Department, New Apparatus, Boroughs of Brooklyn and Queens."

There are unencumbered balances in each fund sufficient for the purpose.

I recommend that the specifications be approved upon the condition that the cost of the tractor shall not exceed $5,200 each.

A resolution is hereto attached which, if adopted will carry out the above recommendation. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, purusant to its resolution adopted June 3, 1910, hereby approves the specifications for two gas-electric chassis to be used as tractors for water towers by the Fire Department, the cost not to exceed five thousand two hundred dollars ($5,200) each.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Queens requesting, and report of the Comptroller recommending, approval of the modification of specifications for dredging a channel at the mouth of the 5th avenue sewer, College Point, to allow payment to the Contractor for material dredged or removed, to a depth not greater than one foot below the line specified by the engineer, or shown on the plan, as requested by the President of the Borough of Queens:

The City of New York, Office of the President of the Borough of Queens, Long Island City, June 20, 1911.

William A. Prendergast, *Esq., Comptroller, City of New York,* New York, N. Y.:

Sir—Pursuant to your report of March 8, 1911, the Board of Estimate and Apportionment did, by resolution, at their meeting of March 16, 1911, approve and concur in resolution of the Boarl of Aldermen of October 18, 1910, authorizing an issue of special revenue bonds in an amount not exceeding $3,000, proceeds whereof to be used for the purpose of abating a public nuisance by dredging a channel at the mouth of the 5th avenue sewer, College Point, concurrent therewith the Board approved the plans and specifications transmitted to your office in connection with this work. Bids were solicited through the usual legal procedure, to be opened in this office on May 19, 1911, with a negative result.

Our records show that two reputable concerns applied for and received copies of the specifications, which our Engineer suggests might have been too stringent in regard to excavation, that in his opinion the same should be modified, and to that end we enclose copy of proposed amended specifications for your consideration.

Yours respectfully,

LAWRENCE GRESSER, President of the Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In a communication to the Comptroller under date of June 20, 1911, the President of the Borough of Queens states that the letting of a contract for dredging a channel at the south of the 5th avenue sewer, College Point, bids for which were to be received through the usual legal procedure, had failed to meet with satisfactory results.

No tenders were received on May 19, 1911, the date advertised for the opening of the bids. It is the opinion of the Engineers in charge that the failure of contractors to bid was that the specifications were too stringently drawn with regard to the limits or fixed lines to which they would be confined in the matter of dredging.

The specifications as originally drawn provide that payment will only be made for material removed down to fixed lines as shown on the plan.

It is customary in dredging contracts to allow payment for all material taken out to a depth not greater than one foot below the depth specified or directed to be made by the Engineer.

It is now proposed to modify the specifications so that a permitted excess of one foot below the fixed line may be allowed. This being in accordance with usual engineering and contracting methods I see no reason why the change should not be made.

The cost of the dredging is to be paid from special revenue bonds.

I recommend, therefore, the adoption of the attached resolution providing for the modification, to allow payment to contractor for material dredged or removed from a depth not greater than one foot below the line specified by the Engineer, or shown on the plan. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of modification of specifications for dredging a channel at the mouth of the 5th avenue sewer, College Point, under the jurisdiction of the President, Borough of Queens, to allow payment to contractor for material dredged or removed, to a depth not greater than one (1) foot below the line specified by the Engineer, or shown on the plan.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($10,535) for installing electric equipment in new Public School No. 168, Brooklyn:

Department of Education, City of New York, Board of Education, Park avenue and 59th street, New York, June 30, 1911.

Hon. W. A. Prendergast, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of June 30, 1911, reading as follows:

"I am forwarding herewith plans and specifications for installing electric equipment in new Public School 168, Borough of Brooklyn, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment, in compliance with the resolution adopted by that Board on January 5, 1911.

"The plans and speecifications have been approved by the Department of Water Supply, Gas and Electricity, as noted on same.

"The above have just been returned by the said Department.

"Approximate cost, $10,535."

The plans and specifications mentioned in the foregoing communication are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—The Board of Education, in a communication dated June 30, 1911, requested approval by the Board of Estimate and Apportionment of plans, specifications and estimate of cost ($10,535), for installing electric equipment in new Public School 168, Borough of Brooklyn.

These plans and specifications cover the installation of a wiring system for power and electric lighting, fixtures for electric and gas lighting, call-bell system, fire alarm connection and interior telephone system. They are satisfactory and bear the approval of the Department of Water Supply, Gas and Electricity. The estimate of cost is reasonable. There is a sufficient balance to pay the cost of this work in the fund authorized for this purpose by the Board of Estimate and Apportionment on June 3, 1910.

I submit for adoption the resolution appended hereto.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the plans, specifications and estimate of cost, ten thousand five hundred and thirty-five dollars ($10,535), for installing electric equipment in new Public School 168, Borough of Brooklyn, under the jurisdiction of the Department of Education.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Commissioner of Public Works, Borough of Richmond requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($9,000) for alterations and additions to the County Clerk's Office, Borough of Richmond, providing the cost of rearranging the old steam heating system and connecting same with new system, amounting to $250, be charged to other than a corporate stock account:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, May 26, 1911.

Hon. William A. Prendergast, *Comptroller,* 280 Broadway, New York:

Dear Sir—In accordance with resolution of the Board of Estimate and Apportionment, we send you herewith for approval contract form and set of drawings for the mason, carpenter, painting, roofing and other work in connection with the alterations and additions to the County Clerk's Office, Borough of Richmond; all of which have been approved by the Art Commission of New York, as has also the form of contract by Corporation Counsel.

We would ask for the earliest possible examination and favorable report to the Board of Estimate and Apportionment so that we may proceed to enter into a contract for the work. Yours respectfully,

LOUIS L. TRIBUS, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 26, 1911, the Commissioner of Public Works of the Borough of Richmond requested approval of plans and specifications for alterations and additions to the County Clerk's Office, Borough of Richmond.

The plans and specifications provide for building a two-story extension (45 feet by 20 feet 6 inches) to the County Clerk's Office building at Richmond, Staten Island, Borough of Richmond, and certain alterations to the steam heating plant of the present building.

The walls and piers are to be built of the best quality hard, well-burned rose brick. The sills to windows, keystones and water table are to be of bluestone, and the entire surface of cellar, first and second floors are to be finished with a three-inch course of concrete. The walls and partitions are to be finished with a hard finish of Diamond Mill plaster of paris.

The rear or northerly wall of the present building is to be carried through roof to act as a fire wall between the old and new building. The windows on the rear or northerly wall of the present building are to be cut down and changed to doorways to provide entrance into the new extension. The northerly end of the proposed extension on the first and second floors is to be divided by partitions from private offices and toilets for men and women. A sectional steam heating boiler is to be placed in the cellar of the new extension of sufficient size to supply heat for the new extension and the present building and the present heating system in the old building is to be rearranged and corrected to the new system. Extensions are to be piped for gas and wired for electricity to be furnished from a street service. The specifications also call for steel filing cases and steel roller book shelves, to be placed in the first and second stories of the extension. It is proposed to charge the cost to the corporate stock fund C-PR-5a, for the Construction of an Addition to the Building now occupied by the County Clerk at Richmond, Borough of Richmond.

The plans and specifications appear to be complete and satisfactory and the estimate of cost, $9,000, reasonable, but the rearrangement of the steam pipes of the present building, at an estimated cost of $250, should be paid for from an account other than corporate stock.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimate of cost, nine thousand dollars ($9,000), for alterations and additions to the County Clerk's office, Borough of Richmond, under the direction of the President, Borough of Richmond, with the expressed understanding that the cost, to the amount of two hundred and fifty dollars ($250) of rearranging the old steam heating system and connecting same to the new heating system, will be charged against a fund other than corporate stock.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the Fire Department requesting, and report of the Comptroller recommending, that the resolutions adopted May 18, 1911, approving of the specifications and estimates of cost for two additional automobile hose wagons, six chassis to be fitted to high pressure hose wagons and for three power propelled auto attachments to be fitted to steam fire engines, for the use of the said Department, be rescinded:

Fire Department of The City of New York, Office of the Commissioner, June 23, 1911.

Hon. William A. Prendergast, *Comptroller of The City of New York:*

Sir—I have the honor to request that the following resolution adopted by the Board of Estimate and Apportionment, at meeting held May 18, 1911, be rescinded as I do not intend to use the money at present:

"Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the specifications and estimate of cost, four thousand two hundred dollars ($4,200) each, for two additional automobile hose wagons for the use of the Fire Department."

Respectfully, JOS. JOHNSON, Fire Commissioner.

Fire Department of The City of New York, Office of the Commissioner, June 23, 1911.

Hon. William A. Prendergast, *Comptroller of The City of New York:*

Sir—I have the honor to request that the resolution adopted by the Board of Estimate and Apportionment, at meeting held on May 18, 1911, approving the specifications and estimates of cost for "Six chassis to be fitted to high pressure hose wagons, estimated cost three thousand dollars ($3,000) each, and three power propelled auto attachments to be fitted to steam fire engines, estimated cost six thousand dollars ($6,000) each," be rescinded, as I do not intend to use the money for this purpose. Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 23, 1911, the Fire Commissioner requested the Board of Estimate and Apportionment to rescind its resolutions adopted May 18, 1911, approving the specifications and estimates of cost for two additional automobile hose wagons ($4,200 each), six chassis, to be fitted to high pressure hose wagons ($3,000 each), and three power-propelled auto attachments to be fitted to steam fire engines ($6,000 each).

The Commissioner wishes to use the funds available for other apparatus which he considers immediately necessary.

I recommend that his requests be granted by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment May 18, 1911, which reads as follows:

"Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the specifications and estimate of cost, four thousand two hundred dollars ($4,200) each, for two additional automobile hose wagons for the use of the Fire Department."

—be, and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment May 18, 1911, which reads as follows:

"Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the specifications and estimates of cost for the following apparatus for the Fire Department:

"Six chassis, to be fitted to high pressure hose wagons, estimated cost, three thousand dollars ($3,000) each, and three power-propelled auto attachments, to be fitted to steam fire engines, estimated cost, six thousand dollars ($6,000) each."

—be, and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Chief City Magistrate, Second Division, requesting, and report of the Comptroller recommending, the issue of $1,500 special revenue bonds (chapter 659, Laws of 1910), for a law library, furniture and equipment for library, courtroom and offices of the Chief Magistrate and rooms of the Board of City Magistrates, Second Division:

(On June 8, 1911, the communication from the Chief City Magistrate above mentioned was referred to the Comptroller.)

Office of Chief City Magistrate, Board of City Magistrates, Second Division, City of New York, Borough Hall, Brooklyn, June 6, 1911.

To the Honorable, the Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—On March 9, 1911, your honorable Board adopted a resolution authorizing an issue of special revenue bonds to an amount not to exceed $1,500, for the purchase of a law library for the City Magistrates' Courts of the First Division.

In behalf of the Magistrates of the Second Division I hereby make application for the adoption of a similar resolution, providing for an issue of special revenue bonds in the amount of $1,500. The Magistrates of the Second Division have the same urgent need for a central library that has been shown to exist in Manhattan, and therefore I respectfully request that an appropriation for that purpose be made.

It is not intended to use the entire fund of $1,500 for the purchase of books, but a portion of the money will be required for furniture and equipment. On May 1, 1911, the offices of the Chief City Magistrate and the Board of City Magistrates of the Second Division were removed to the Temple Bar Building, 44 Court street, Brooklyn, but no provision has been made to equip the rooms with necessary furniture. We are without the facilities required for properly accommodating the public and for fitting up a library and court room. The sum of $1,500 would enable us to meet all requirements by completely furnishing the library, the Chief Magistrate's Office and the rooms of the Board of City Magistrates. Yours respectfully,

OTTO KEMPNER, Chief City Magistrate, Second Division.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 6, 1911, the Chief City Magistrate of the City Magistrates' Court, Second Division, covering Brooklyn, Queens and Richmond, requested $1,500 in special revenue bonds for a law library, furniture and equipment for the library, courtroom and office of the Chief Magistrate and the rooms of the Board of City Magistrates, in 44 Court street, Brooklyn. In connection therewith I report as follows:

The Chief Magistrate states that it is proposed to establish a central library for the use of the Magistrates and that it will be necessary to spend $500 in the purchase of the following law books and court report:

Appellate Division Reports, Hun's Reports, New York Criminal Reports, Bishop's Criminal Law, Russell on Crimes, Archibald's Criminal Pleadings, Abbott's Trial Brief, Black's Law Dictionary, Moore on Extradition, Brightley's Digest, Beal's Cases, Rosco's Criminal Evidence, Abbott's Cyclopedic Digest, Mikell's Cases, Phipson's Manual, Cyc, 36 volumes; Underhill's Criminal Evidence, Wigmore on Evidence, Miscellaneous Reports.

It is estimated that the furniture and equipment for the library, courtroom and offices of the Chief Magistrate and rooms of the Board of City Magistrate will cost $1,054, estimated as follows:

3 flat-top desks and chairs at $25	$75 00
3 desks and chairs at $42.50	127 50
1 bench and rail (estimated)	125 00
2 No. 2 T steel oak tops for cabinet at $4	8 00
2 No. 124 C Unit Steel Globe files at $24	48 00
2 No. 541 steel upright vertical letter files, at $35	70 00
4 benches at $12.50	50 00
1 Globe cabinet safe with compartments	97 00
1 globe cabinet safe with units	150 00
30 bookcases at $2.75	82 50
6 tops at $1.75	10 50
6 bases at $1.75	10 50
1 Globe cabinet, No. 1322, with fittings	30 00
3 large oak tables at $20	60 00
4 card units 4 by 6 at $23	92 00
Indexes for above	10 00
Base and top	8 00
	$1,054 00

It is proposed to establish the library in the offices of the Chief Magistrate, where it will be convenient for the Magistrates to consult authorities and confer upon the interpretation of laws. It is stated that the library is needed for differences of opinions on questions of law and evidence.

Section 115 of chapter 659 of the Laws of 1910, entitled "An Act in Relation to the Inferior Courts of Criminal Jurisdiction in The City of New York," provides as follows:

"It shall be the duty of the City of New York and its several officers charged with duties in that behalf to supply and pay for whatever may be necessary for the transaction of the business of the said City Magistrates and to supply all proper courthouses and accommodations, books, stationery, furniture, and such law books as may be certified by the Chief Magistrate in either division to be necessary for the use of the Magistrates' Court."

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 659, Laws of 1910, entitled "An Act in Relation to the Inferior Courts of Criminal Jurisdiction in The City of New York," the Board of Estimate and Apportionment hereby approves of an issue of special revenue bonds to an amount not to exceed one thousand five hundred dollars ($1,500) for a law library, furniture and equipment for library, courtroom and offices of the Chief Magistrate and rooms of the Board of City Magistrates, Second Division.

and for the purpose of providing means therefor, the Comptroller be and is hereby authorized to issue special revenue bonds of The City of New York as provided by chapter 659, Laws of 1910, to an amount not to exceed one thousand five hundred dollars ($1,500), redeemable from the tax levy of the year succeeding their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting an issue of $59,585.50 special revenue bonds (subdivision 8, section 188 of the Charter), for the continuance of the operations of the Bureau of Street Cleaning of the Borough of Queens for the year 1911, together with a report of the Comptroller, to whom, on April 20, 1911, this application was referred, recommending an issue of $59,192.81 for this purpose; also recommending approval of a schedule for said fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of fifty-nine thousand five hundred and eighty-five dollars and fifty cents ($59,585.50), the proceeds whereof to be used by the President, Borough of Queens, for the purpose of providing means for the continuance of the operations of the Bureau of Street Cleaning, Borough of Queens, during 1911, at the present ratio.

Adopted by the Board of Aldermen March 28, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor April 11, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 5, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 28, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of $59,585, the proceeds to be used by the President, Borough of Queens, for the purpose of providing means for the continuance of the operations of the Bureau of Street Cleaning, Borough of Queens, during 1911, at the present rate. In connection therewith I report as follows:

The Superintendent of the Bureau states that with the amount asked for, in addition to the Budget appropriation, the Bureau can be operated in a fairly satisfactory manner. If the amount is not authorized, he states the force of Laborers and Sweepers will have to be decreased, with corresponding loss in the efficiency of the service. He further states that the danger to the health of residents of congested districts, and particularly of residents along the seashore during the summer months, would follow any decrease of the laboring force.

The following table shows the mileage of improved streets in the Borough of Queens from 1904 to 1911, inclusive:

	Miles.
1904	53.68
1905	62.39
1906	64.89
1907	69.45
1908	70.96
1909	78.54
1910	82.04
1911	85.01

This table is exclusive of 75 miles of paved gutters.

The following table shows the work being done at present in street cleaning:

	Miles.
Swept twice daily	16.2
Swept six times a week	34.7
Swept four times a week	5.6
Swept three times a week	7.9
Swept twice weekly	8.1

Swept once a week	6.8
Swept every two weeks	1.6
Swept every three weeks	2.3
Total miles swept	83.2
Total miles unswept	1.9
	85.1

The record of Bureau collections, as listed on the books of the Bureau from 1905 to 1910, inclusive, is as follows:

	Ashes.	Sweepings.	Rubbish,	Garbage.	Totals.
1905	39,433¼	28,134¼	6,637¾	10,922	85,127¼
1906	55,491¾	35,466¾	12,451½	18,392	121,802
1907	76,489¾	35,959¾	16,081¼	22,604	151,134¾
1908	93,368¾	47,447	21,471½	28,144	190,701¼
1909	85,595½	44,877	18,683¾	28,366	177,502¼
1910	96,950	45,772¾	23,180¼	31,255¾	197,158¾

The record of private collections, also from the books of the bureau, is as follows:

	Ashes.	Rubbish.	Garbage.	Totals.
1905	1,900½	507¼	2,398½	4,806¼
1906	226¾	494¼	484¾	1,205¾
1907	926	2,160½	1,156½	4,243
1908	2,301	4,339	4,527¼	11,167¼
1909	445½	2,604¾	2,222½	5,272¾
1910	682¾	1,894⅜	3,209¾	5,786⅞

The Superintendent of the Bureau states that the totals in the above tables are correct for the years 1909 and 1910, while he has reason to doubt the correctness of the totals for the previous years, particularly those of the year 1908.

Garbage and ashes collections throughout the Borough of Queens are as follows:

Three Times a Week—Long Island City, Astoria, Dutch Kills, Ravenswood, Steinway, Hunters Point, Blissville, Woodside, Winfield, Corona, Elmhurst, East Elmhurst, Maspeth, Middle Village, Glendale, Ridgewood, Ridgewood Heights, Garmania Heights, Flushing, College Point, Whitestone, Bayside, Malba, Rockaway, Far Rockaway, Rockaway Park, Arverne, Hammel's, and Belle Harbor.

Twice a Week—Broadway-Flushing, Douglaston Manor, Douglaston, Little Neck, Jamaica, Richmond Hill, Woodhaven, Brooklyn Hills, Brooklyn Manor, Morris Park, Hollis, Springfield and Rosedale.

Once a Week—Laurelton.

The Superintendent of the Bureau states that it is proposed to make daily collections during the summer months in Rockaway, Far Rockaway, Rockaway Park, Arverne, Hammells and Belle Harbor. These places had daily collections during the summer months in 1910.

The increasing demands on the Bureau is shown partly by the following table of new buildings:

1906	4,070
1907	3,929
1908	3,896
1909	4,758
1910	4,138
1911 (four months)	2,232

The President of the Borough gives the following estimates of the population of Queens:

January, 1908	238,000
January, 1909	264,000
January, 1910	284,000
January, 1911	300,000

The present force of laborers and sweepers, and hired teams, horses and carts is stated to be as follows:

Laborers and Sweepers, at $2.50 per diem	182

Teams and Trucks, at $6 per diem (with driver)	40
Horses and Carts, at $3.50 per diem (with driver)	104
Teams and Sweepers, at $6 per diem (with driver)	7
Horses and Sprinklers, at $3.50 per diem (with driver)	7

The following table shows the amount necessary to carry the present force for the year:

Laborers and Sweepers.

Budget provision	$102,652 50
Expended to June 12, 1911 (138 days)	58,541 30
Balance on hand	44,111 20
Amount necessary to carry force from June 12, 1911 (174 days)	79,170 00
Amount of revenue bonds required	$35,058 80

Hired Teams, Horses and Carts.

Budget provision	$160,000 00
Expended to June 12, 1911 (138 days)	75,053 01
Balance on hand	$84,946 99
Amount necessary to carry force from June 12, 1911 (174 days)	109,081 00
Amount of revenue bonds required	$24,134 01

The total amount of revenue bonds required, therefore, is $59,192.81.

The proposed increases are under two appropriate accounts: No. 1,864, Wages, Temporary Employees, Laborers and Sweepers, and No. 1,865, Hired Teams, Horses and Carts. With the proposed increases, the accounts would stand for the year as follows:

1864. Wages, Temporary Employees, Laborers and Sweepers:

Budget provision	$102,652 50
Proposed revenue bond issue	35,058 80
	$137,711 30

The expenditures under this account for the year 1910 were as follows:

Budget	$90,101 87	
Revenue Bonds	26,620 49	
		$116,722 36

1865. Hired Teams, Horses and Carts:

Budget provision	$160,000 00
Proposed revenue bond issue	24,134 01
	$184,134 01

The expenditures under this account for the year 1910 were as follows:

Budget	$144,739 00	
Revenue bonds	24,229 28	
		$168,968 28

The budget provision for the Bureau of Street Cleaning in Richmond for the year 1911, is $225,307. Estimated on a population of 90,000, this gives $2.50 per capita. The per capita for Queens, estimated on a population of 300,000 and gross appropriation of $337,446, is $1.12. With the budget appropriation increased by $59,192.81 in special revenue bonds, the per capita in Queens would be $1.32.

I recommend the adoption of the attached resolutions granting the request to the extent of $59,192.81, and approving a schedule for the fund.

Respectfully, WM. A. PRENDERAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on March 28, 1911, requesting an issue of special revenue bonds in the sum of fifty-nine thousand five hundred and eighty-five dollars and fifty cents ($59,585.50), to be used by the President of the Borough of Queens for the purpose of providing means for the continuance of the operations of the Bureau of Street Cleaning, Borough of Queens, during 1911, at the present ratio, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of fifty-nine thousand one hundred and ninety-two dollars and eighty-one cents ($59,192.81), and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fifty-nine thousand one hundred and ninety-two dollars and eighty-one cents ($59,192.81), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the office of the President of the Borough of Queens for the year 1911 as follows:

President of the Borough of Queens.

Bureau of Street Cleaning, Sweeping, Carting and Final Disposition, Revenue Bond Force—

Wages, Temporary Employees:	
Laborers and Sweepers, at $2.50 per diem (14,023 days)	$35,058 80
Hired Teams, Horses and Carts, Revenue Bond Force—	
Wages, Temporary Employees:	
Drivers with horse and sprinkler, at $3.50 per day Drivers with horse and cart, at $3.50 per day Drivers with team and truck, at $6 per day Drivers with team and sweeper, at $6 per day	$24,134 01

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report of the Corporate Stock Budget Committee recommending, that the resolution adopted June 10, 1910, which amended resolution adopted March 26, 1909, relative to the issue of $958,089.65 corporate stock for interior construction and equipment of school buildings and additions thereto, etc., be further amended by transferring the sum of $11,466 of the available balance for heating and ventilation for Public School 162, Brooklyn, to similar equipment items for which the funds allowed have been inadequate:

(On June 22, 1911, the request of the Board of Education for the above amendment was referred to said Committee.)

Board of Education, Park Avenue and 59th Street, New York, June 16, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I have the honor to transmit herewith a certified copy of a report and resolution adopted by the Board of Education at a meeting held on the 14th inst., relative to amending resolutions adopted by the Board of Estimate and Apportionment on March 19 and 26, 1909, and amended June 10, 1910, authorizing the issue of corporate stock to an amount not exceeding $967,764.18, to provide means for the interior construction of public school buildings and additions thereto. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

To the Board of Education:

The Committee on Finance respectfully reports that it is in receipt of the following communication:

"June 2, 1911.

"Hon. John Greene, *Chairman, Committee on Finance:*

"Dear Sir—I have the honor to advise you that at a meeting of the Committee on Buildings held on May 29, 1911, it was ordered that the Committee on Finance be informed that it has been found that the funds allowed for the following work are inadequate for the purposes:

Work.	Appropriation.	Estimated Cost.	Amount Required.
"Public School 19, Brooklyn—			
Furniture	$11,625 00	$14,870 00	$3,255 00
"Public School 95, Manhattan—			
Furniture	22,875 00	25,991 00	3,116 00
"Public School 165, Brooklyn—			
Furniture	13,125 00	15,620 00	2,495 00
Temperature regulation	....	....	2,600 00

"It was further ordered that the Committee on Finance be informed that there are unexpended balances, as hereinafter stated, which are no longer required for the following work, and which it is desired to have made available for the purposes above mentioned:

"Public School 162, Brooklyn, heating and ventilating apparatus	$12,995 96
"Public School 17, Manhattan, interior equipment	8,748 35

"Respectfully yours,

"A EMERSON PALMER, Secretary, Board of Education."

Therefore, be it

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to amend the resolution adopted by it on March 19 and 26, 1909, and amended on June 10, 1910, authorizing the Comptroller to issue corporate stock of The City of New York to an amount not exceeding $967,764.18, to provide means for the interior construction and equipment of public school buildings and additions thereto, by striking therefrom the figures $45,000 for the heating and ventilating apparatus, Public School 162, Borough of Brooklyn, and inserting in place thereof the figures $34,534, and by inserting the figures $3,255 for Public School 19, Borough of Brooklyn; $3,116 for Public School 95, Borough of Manhattan; $2,495 for Public School 165, Borough of Brooklyn, and $2,600 for Public School 165, Borough of Brooklyn, for the purpose of furniture work and temperature regulation in the above-mentioned schools.

A true copy of report and resolution adopted by the Board of Education on June 14, 1911. A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 3, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 14, 1911, the Board of Education requested amendment of a resolution adopted by the Board of Estimate and Apportionment on June 10, 1910, authorizing the issue of corporate stock of The City of New York to an amount not exceeding $967,764.18, to provide means for the interior construction and equipment of public school buildings and additions thereto, etc. In connection therewith we report as follows:

The amount authorized was $958,089.65, instead of $967,764.18, as stated in the request.

Item 2, Equipment of Buildings, Borough of Brooklyn, in the resolution provided $46,000 for heating and ventilation, Public School 162. This account has an available balance of $12,995.96. It is proposed to transfer $11,466 of the amount to similar equipment items, for which the funds allowed have been inadequate, as follows:

Work.	Appropriation.	Estimated Cost.	Amount Required.
P. S. 19, Brooklyn—			
Furniture	$11,625 00	$14,870 00	$3,255 00
P. S. 95, Manhattan—			
Furniture	22,875 00	25,991 00	3,116 00
P. S. 165, Brooklyn—			
Furniture	13,125 00	15,620 00	2,495 00
Temperature regulation	....	....	2,600 00
			$11,466 00

We recommend that the request be granted by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the following resolution adopted by the Board of Estimate and Apportionment on June 10, 1910:

"Resolved, That the following resolution adopted by the Board of Estimate and Apportionment March 26, 1909:

"'Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to the amount of eight hundred thousand dollars ($800,000), to provide means for the payment of awards and costs in sundry school site proceedings; for the discharge of sundry liabilities for equipment work already performed and in course of performance; for new work incidental to the completion of school buildings now under construction, etc., and the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding eight hundred thousand dollars ($800,000), in addition to the sum of two hundred thousand dollars ($200,000), authorized March 19, 1909, the proceeds whereof to be applied to the purposes aforesaid; the total sum of one million dollars ($1,000,000) to be expended in the manner and amounts described hereunder:'"

For School Sites.

Borough of Brooklyn—	
Willoughby avenue and Suydam street, near St. Nicholas avenue, awards, costs, charges, etc	$10,825 30
4th avenue, 29th and 30th streets, awards, costs, charges, etc	61,996 00
2d avenue, 86th and 87th streets, awards, costs, charges, etc	41,968 18
Rutledge street, between Lee and Bedford avenues, awards, costs, charges, etc	53,252 50
7th avenue, 43d and 44th streets, awards, costs, charges, etc	31,567 50
Rockaway avenue and Sumpter street, awards, costs, charges, etc	60,091 80
Borough of Manhattan—	
12th street, between Avenues B and C, awards, costs, charges, etc	154,330 00
Pleasant avenue and East 119th street, awards	71,635 00
Baxter and Hester streets, awards	40,000 00
Borough of Richmond—	
Clifton and Pennsylvania avenues, awards	3,375 00

Interest.

Interest on above awards to April 1, 1909	23,055 06
Interest on total of awards from April 1, 1909, to May 1, 1909	2,577 04

Sundry Bills.

For services of expert, etc	3,573 04

For Work Already Performed and in Course of Performance.

Public School 128, Brooklyn, furniture	3,744 20
Public School 126, Brooklyn, furniture	3,965 45
Public School 84, Brooklyn, addition, furniture, etc	8,403 60
Sundry schools, equipment	1,147 28

For Equipment of Buildings Now Under Construction.

Borough of Manhattan—	
Public School 101, electric heating and ventilation	50,000 00
Public School 27, furniture	5,400 00
Public School 114, furniture	25,000 00
Borough of The Bronx—	
Public School 30, electric	6,000 00
Borough of Brooklyn—	
Public School 164, electric	14,000 00
Public School 162, heating and ventilation	46,000 00
Public School 163, heating and ventilation	32,000 00
Public School 84, heating, ventilation and furniture	74,596 40

Public School 126, furniture	2,500 00
Public School 128, furniture	3,000 00
Public School 160, furniture	14,400 00
Public School 163, furniture	14,400 00
Borough of Queens—	
Public School 87, electric, heating and ventilation	29,500 00

Salaries and Wages, Specifications, etc., All Boroughs.

Wages of Inspectors and Draftsmen	100,000 00
Surveys, borings, specifications, materials, etc	7,696 65
	$1,000,000 00

—be amended to read as follows:

"Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to the amount of seven hundred and fifty-eight thousand eighty-nine dollars and sixty-five cents ($758,089.65), to provide means for the payment of awards and costs in sundry school site proceedings; for the discharge of sundry liabilities for equipment work already performed and in course of performance; for new work incidental to the completion of school buildings now under construction, etc., and the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding seven hundred and fifty-eight thousand eighty-nine dollars and sixty-five cents ($758,089.65), in addition to the sum of two hundred thousand dollars ($200,000), authorized March 19, 1909, the proceeds whereof to be applied to the purposes aforesaid; the total sum of nine hundred and fifty-eight thousand eighty-nine dollars and sixty-five cents ($958,089.65), to be expended in the manner and amounts described hereunder.

For School Sites.

Borough of Brooklyn—	
Willoughby avenue and Suydam street, near St. Nicholas avenue, awards, costs, charges, etc	$10,825 30
4th avenue, 29th and 30th streets, awards, costs, charges, etc	61,996 00
2d avenue, 86th and 87th streets, awards, costs, charges, etc	41,968 18
Rutledge street, between Lee and Bedford avenues, awards, costs, charges, etc	53,252 50
7th avenue, 43d and 44th streets, awards, costs, charges, etc	31,567 50
Rockaway avenue and Sumpter street, awards, costs, charges, etc	60,091 80
Borough of Manhattan—	
12th street, between Avenues B and C, awards, costs, charges, etc	154,330 00
Pleasant avenue and East 119th street, awards	71,635 00
Baxter and Hester streets, awards	40,000 00
Borough of Richmond—	
Clifton and Pennsylvania avenues, awards	3,375 00

Interest.

Interest on above awards to April 1, 1909	23,055 06
Interest on total of awards from April 1, 1909, to May 1, 1909	2,577 04

Sundry Bills.

For services of experts, etc	3,573 04

For Work Already Performed and in Course of Performance.

Public School 128, Brooklyn, furniture	3,744 20
Public School 126, furniture	3,923 91
Public School 84, addition, furniture, etc	8,403 60
Sundry schools, equipment	1,147 28

For Equipment of Buildings Now Under Construction.

Borough of Manhattan—	
Public School 101, electric, heating and ventilation	29,595 78
Public School 27, furniture	5,395 04
Public School 114, furniture	14,811 20
Borough of The Bronx—	
Public School 30, electric	6,000 00
Borough of Brooklyn—	
Public School 164, electric	14,000 00

Public School 162, heating and ventilation	46,000 00
Public School 163, heating and ventilation	26,311 41
Public School 84, heating, ventilation and furniture	74,596 40
Public School 126, furniture	2,500 00
Public School 128, furniture	3,000 00
Public School 160, furniture	13,418 38
Public School 163, furniture	13,500 40
Borough of Queens—	
Public School 87, electric, heating and ventilation	25,798 98

Salaries and Wages, Specifications, etc., All Boroughs.

Wages of Inspectors and Draftsmen	100,000 00
Surveys, borings, specifications, materials, etc	7,696 65
	$958,089 65”

—be amended to make the schedules read as follows:

For School Sites.

Borough of Brooklyn—	
Willoughby avenue and Suydam street, near St. Nicholas avenue, awards, costs, charges, etc	$10,825 30
4th avenue, 29th and 30th streets, awards, costs, charges, etc	61,996 00
2d avenue, 86th and 87th streets, awards, costs charges, etc	41,968 18
Rutledge street, between Lee and Bedford avenues, awards, costs, charges, etc	53,252 50
7th avenue, 43d and 44th streets, awards, costs, charges, etc	31,567 50
Rockaway avenue and Sumpter street, awards, costs, charges, etc	60,091 80
Borough of Manhattan—	
12th street, between Avenues B and C, awards, costs, charges, etc	154,330 00
Pleasant avenue and East 119th street, awards	71,635 00
Baxter and Hester streets, awards	40,000 00
Borough of Richmond—	
Clifton and Pennsylvania avenues, awards	3,375 00

Interest.

Interest on above awards to April 1, 1909	23,055 06
Interest on total of awards from April 1, 1909, to May 1, 1909	2,577 04

Sundry Bills.

For services of experts, etc	3,573 04

For Work Already Performed and in Course of Performance.

Public School 128, Brooklyn, furniture	3,744 20
Public School 126, furniture	3,923 91
Public School 84, addition, furniture, etc	8,403 60
Sundry schools, equipment	1,147 28

For Equipment of Buildings Now Under Construction.

Borough of Manhattan—	
Public School 101, electric, heating and ventilation	29,595 78
Public School 27, furniture	5,395 04
Public School 114, furniture	14,811 20
Public School 95, furniture	3,116 00
Borough of The Bronx—	
Public School 30, electric	6,000 00
Borough of Brooklyn—	
Public School 164, electric	14,000 00
Public School 162, heating and ventilation	34,534 00
Public School 163, heating and ventilation	26,311 41
Public School 84, heating, ventilation and furniture	74,596 40
Public School 126, furniture	2,500 00
Public School 128, furniture	3,000 00
Public School 160, furniture	13,418 38
Public school 163, furniture	13,500 40
Public School 19, furniture	3,255 00
Public School 165, furniture	2,495 00
Public School 165, temperature regulation	2,600 00
Borough of Queens—	
Public School 87, electric, heating and ventilation	25,798 98

Salaries and Wages, Specifications, etc., All Boroughs.

Wages of Inspectors and Draftsmen	100,000 00
Surveys, borings, specifications, materials, etc	7,696 65
	$958,089 65

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Commissioner of Water Supply, Gas and Electricity, referring to the petition of the South Side Board of Trade of Brooklyn, relative to the validity of the franchise of the Edison Electric Illuminating Company in so far as it affects their operation in that section of Brooklyn and recommending that a municipal electric light and power plant be constructed and operated in the 30th Ward of Brooklyn in view of the excess rates charged which affects the City as well as the private consumer, stating that a municipal plant for obvious reasons would not be successful, but that it would be wise perhaps to instruct the Corporation Counsel to draft and present to the legislature a bill amending the laws of the law of 1905 by fixing the rate for electric current the same as in the Boroughs of Manhattan and The Bronx.

The Secretary was instructed to ascertain if the Corporation Counsel had rendered an opinion on the subject and if not to request that he forward one to the Board.

(On June 22, 1911, the above petition was referred to the Commissioner of Water Supply, Gas and Electricity.)

The Secretary presented the following communication from the Department of Education requesting the transfer of $10 within the appropriation for the year 1911, together with a report of the Comptroller recommending that said request be disapproved, as the proposed transfer is to provide $250 for a proposed grade of Deputy Superintendent of School Supplies at $2,200 per annum, the establishment of which grade was denied by the Board on July 6, 1911:

Department of Education, City of New York, Park avenue and 59th street, New York, June 24, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—It appears that as the result of action taken by the Board of Education at its meeting on the 14th instant in reference to promotions, etc., in the Bureau of Supplies (if the same is effectuated), there will be a deficit of $10 in Appropriation No. 1212, Office of the Superintendent of School Supplies, Salaries. Appropriation No. 1214, Office of the Superintendent of School Buildings, Salaries, is, however, in excess of its requirements, and the Bureau of Buildings has signified its consent to a transfer of $10 to Appropriation No. 1212. This matter was brought to the attention of the Committee on Supplies at its meeting on Thursday evening, and I was asked to forward a request for the transfer of $10, as above indicated. A report in reference to this transfer will be presented to the Board of Education for ratification at its meeting to be held on June 28. Yours very truly,

EGERTON L. WINTHROP, President, Board of Education.

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Board of Education requested the transfer of $10 from the 1911 account No. 1214, Office of the Superintendent of School Buildings, Salaries, to No. 1212, Office of the Superintendent of School Supplies.

The $10 was to be transferred to provide $250 for a proposed grade of Deputy Superintendent of School Supplies, at $2,200 per annum. The request for the establishment of the grade was denied by the Board of Estimate and Apportionment on July 6, 1911.

I recommend, therefore, that the request be not approved.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the request of the Board of Education contained in a communication dated June 24, 1911, for the transfer of ten dollars ($10) from account No. 1214, Office of the Superintendent of School Buildings, Salaries, to account No. 1212, Office of the Superintendent of School Supplies, Salaries, for the year 1911, be and the same is hereby disapproved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board fo Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Acting President of the Borough of Queens requesting, and report of the Comptroller recommending, approval of the schedules as revised, for the Office of the President of the Borough of Queens, for the year 1911, Bureau of Sewers, Street Improvement Force, by substituting a Rodman at $1,200 per annum for one at $1,050 per annum, to take effect as of June 9, 1911:

The City of New York, Offices Commissioner of Public Works of the Borough of Queens, Long Island City, June 23, 1911.

Hon. William J. Gaynor, *Mayor and Chairman, Board of Estimate and Apportionment:*

Dear Sir—Referring to resolution adopted by your honorable Board on June 1, 1911, establishing a schedule of engineering positions for employment in the Bureau of Sewers, this Department, on assessment work, we beg to ask for a revision as follows:

Present schedule—

Salaries, Regular Employees, Street Improvement Force:

Transitmen, 3 at	$1,500 00
Rodmen, 4 at	1,050 00
Mechanical Draftsman, 1 at	1,800 00
Topograhpical Draftsmen, 3 at	1,500 00
Topographical Draftsmen, 2 at	1,350 00
Topographical Draftsmen, 6 at	1,200 00
Inspectors of Sewer Construction, with knowledge of steel and concrete, 12 at	1,500 00
Inspectors of Sewer Construction (per diem), 20 at	4 00

Proposed schedule—

Salaries, Regular Employees, Street Improvement Force:

Transitmen, 3 at	$1,500 00
Rodman, 1 at	1,200 00
Rodmen, 3 at	1,050 00
Mechanical Draftsman, 1 at	1,800 00
Topograhpical Draftsmen, 3 at	1,500 00
Topographical Draftsmen, 2 at	1,350 00
Topographical Draftsmen, 6 at	1,200 00
Inspectors of Sewer Construction, with knowledge of steel and concrete, 12 at	1,500 00
Inspectors of Sewer Construction (per diem), 20 at	4 00

This modification is desired for the reason that on the preferred list of Rodmen at $1,200 per annum, the name of John O'Neil appeared, who has had considerable experience on sewer construction and it was desired to obtain his services in this Borough and he has been appointed at a salary of $1,200 per annum.

Respectfully, WALTER H. BUNN, Acting President, Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 23, 1911, the Acting President of the Borough of Queens requested modification of the non-budgetary schedule for the wages of regular employees of the Street Improvement Force, in the Bureau of Sewers for the year 1911. In connection therewith I report as follows:

It is proposed to strike out a Rodman, at $1,050 per annum, and add one at $1,200. The position at $1,050 is vacant, and on June 9, 1911, an incumbent at the $1,200 rate was appointed from a Civil Service eligible list.

The following table shows the schedule changes in detail:

Line Number.	Schedule Transfer. Increase.	Schedule Transfer. Decrease.
Street Improvement Force—		
Salaries, Regular Employees:		
Rodmen, 4 at $1,050	....	$1,050 00
Rodman, at $1,200	$1,200 00	....

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Queens, for the year 1911, to take effect as of June 9, 1911, as follows:

President of the Borough of Queens.

Bureau of Sewers, Street Improvement Force—

Salaries, Regular Employees:

Transitmen	3 at	$1,500 00
Rodman	1 at	1,200 00
Rodmen	3 at	1,050 00
Mechanical Draftsman	1 at	1,800 00
Topographical Draftsmen	3 at	1,500 00
Topographical Draftsmen	2 at	1,350 00
Topographical Draftsmen	6 at	1,200 00
Inspectors of Sewer Construction with knowledge of steel and concrete	12 at	1,500 00
Inspectors of Sewer Construction, per diem	20 at	4 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller relative to, the modification of salary schedules Nos. 91 and 126, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the increase in compensation of a Foreman Riveter from $1,800 to $2,100 per annum, and the elimination of a Bridge Tender at $900 per annum, involving the transfer of $150:

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, July 3, 1911.

Hon. William A. Prendergast, *Comptroller, The City of New York,* 280 Broadway, New York, N. Y.:

Sir—I have to request a modification of the schedules supporting the Budget appropriation for the Department of Bridges for the year 1911, and involving a transfer of $300 effective as of July 1, 1911, as follows:

From

Bridges over Newtown Creek and in the Borough of Queens—	
Drop line item,	
91. Wages, Regular Employees:	
Bridge Tenders, 54 at $900	$48,600 00
Queensboro Bridge—	
Drop line item,	
126. Wages, Regular Employees:	
Foreman Riveter, 1 at	$1,800 00

To

Bridges over Newtown Creek and in the Borough of Queens—

Add line item to read,

91. Wages, Regular Employees:	
Bridge Tenders, 53 at $900	$47,700 00
Unassigned	600 00

Queensboro Bridge—

Add line item to read,

126. Wages, Regular Employees:	
Foreman Riveter, 1 at	$2,100 00

This request is made so that the pay of a Foreman Riveter on the Queensboro Bridge may be equalized with that of Foreman Riveter on the New York and Brooklyn Bridge. It is necessary that men of skill and efficiency be employed on the important bridges.

Copy of revised schedules affected herewith. Respectfully,

ARTHUR J. O'KEEFFE, Commissioner.

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 3, 1911, the Commissioner of Bridges requested modification of two schedules for the wages of regular employees in his Department for 1911, involving a cash transfer of $150. In connection therewith I report as follows:

It is proposed to increase the compensation of a Foreman Riveter on the Queensboro Bridge from $1,800 to $2,100 per annum. The increase is to be provided for by dropping a Bridge Tender at $900 in the schedule for Bridges over Newtown Creek and in the Borough of Queens.

The Commissioner states the increase is to equalize the compensation of Foreman Riveters on the Queensboro and the New York and Brooklyn Bridges.

The following table shows the schedule changes in detail:

Code No.		Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
91.	Bridge Tenders, 54 at $900...	$900 00	......	$450 00	......
	Balance unassigned	......	$600 00	......	$300 00
126.	Foreman Riveters, 2 at $1,800.	1,800 00	......	900 00	......
	Foreman Riveter at $2,100....	......	2,100 00	......	1,050 00
		$2,700 00	$2,700 00	$1,350 00	$1,350 00

The attached resolutions, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised of the Department of Bridges, to become effective as of July 1, 1911, for the year 1911, as follows:

Department of Bridges.

Bridges over Newtown Creek and in the Borough of Queens—

91. Wages, Regular Employees:	
General Foreman	$2,000 00
Foreman Painter and Rigger	1,800 00
Bridge Keepers, 5 at $1,200	6,000 00
Bridge Tenders, 53 at $900	47,700 00
Engineman, 1 at $4.50 per day (365 days)	1,642 50
Machinists, 2 at $4.50 per day (365 days)	3,285 00
Machinist, 1 at $4.50 per day (303 days)	1,363 00
Bridge Mechanics or Riveters, 2 at $4.80 per day (303 days)	2,908 80
Bridge Mechanics or Riveters, 3 at $4.80 per day (277 days)	3,988 80
Assistant Foreman Carpenter, 1 at $5 per day (277 days)	1,385 00
Carpenter, 1 at $5 per day (277 days)	1,385 00
Ship Carpenters, 3 at $5 per day (277 days)	4,155 00
Painters, 5 at $4 per day (277 days)	5,540 00
Inspector (Electrical), 1 at $4.50 per day (365 days)	1,642 50
Machinist's Helper, 1 at $3 per day (277 days)	831 00
Laborers, 2 at $3 per day (313 days)	1,878 00

Laborers, 3 at $2.50 per day (365 days)	2,737 50
Unassigned	600 00
	$90,842 60

Queensboro Bridge—

126. Wages, Regular Employees:

Foreman Riveter	$2,100 00
Foreman Laborers, 2 at $1,800	3,600 00
Carpenters, 2 at $5 per day (277 days)	2,770 00
Riveters, 9 at $4.80 per day (277 days)	11,966 40
Wiremen, 2 at $4.50 per day (365 days)	3,285 00
Blacksmith, 1 at $4.50 per day (277 days)	1,246 00
Painters, 2 at $4 per day (277 days)	2,216 00
Blacksmith's Helper, 1 at $3 per day (277 days)	831 00
Watchmen, 6 at $2 per day (365 days)	4,380 00
Laborer, 1 at $3 per day (365 days)	1,095 00
Laborers, 2 at $3 per day (303 days)	1,818 00
Laborers, 6 at $2.50 per day (365 days)	5,475 00
Laborers, 13 at $2.50 per day (303 days)	9,847 50
Unassigned balance	62 00
	$50,692 40

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Bridges for the year 1911, as follows:

From

Bridges over Newtown Creek and in the Borough of Queens—

91. Wages, Regular Employees	$150 00

To

Queensboro Bridge—

126. Wages, Regular Employees	$150 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller relative to, the revision of schedules for employees of said Department for the year 1911, Williamsburg Bridge Division, providing for the increase in compensation of a Foreman Riveter from $1,800 to $2,000 per annum:

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, July 3, 1911.

Hon. William A. Prendergast, *Comptroller, The City of New York,* 280 Broadway, New York, N. Y.:

Sir—I have to request a modification of the schedule of Wages, Regular Employees, Williamsburg Bridge Division of the Department of Bridges, for the year 1911, which schedule was adopted by the Board of Estimate and Apportionment on March 30, 1911, effective as of July 1, 1911, as follows:

Drop line item reading:	
Foremen Riveters, 2 at	$1,800 00
Add line items to read:	
Foreman Riveter, 1 at	$2,100 00
Foreman Riveter, 1 at	1,800 00

This request is made so that the salary of one man in responsible charge may be equalized with that of men holding similar positions on the other large East River bridges.

Copy of revised schedule herewith. Respectfully,

ARTHUR J. O'KEEFFE, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 3, 1911, the Commissioner of Bridges requested modification of the non-budgetary schedule for the wages of regular employees in the Williamsburg Bridge Division for the year 1911. In connection therewith, I report as follows:

It is proposed to increase the compensation of a Foreman Riveter from $1,800 to $2,000 per annum. The Commissioner states that the increase is for equalization with the compensation paid to incumbents in similar positions on the other East River bridges.

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised, for the employees of the Department of Bridges, paid from other than budgetary funds, to be effective as of July 1, 1911, for the year 1911, as follows:

Department of Bridges.

Williamsburg Bridge Division—

Wages, Regular Employees:

Foreman Laborer, 1 at	$2,400 00
Foreman Laborer, 1 at	2,150 00
Foreman Laborer, 1 at	1,200 00
Foreman Riveter, 1 at	2,100 00
Foreman Riveter, 1 at	1,800 00
Foremen Carpenters, 2 at	1,500 00
Foremen Painters, 3 at	1,500 00
Foreman Brick Mason, 1 at	1,800 00
Foremen Linemen, 2 at	1,500 00
Riveters, 27, at, a day (276 days)	5 00
Stonecutter, 1, at, a day (276 days)	5 00
Riggers, 2, at, a day (276 days)	3 75
Housesmiths, 2, at, a day (276 days)	5 00
Bridge Mechanics, 2, at, a day (276 days)	5 00
Blacksmiths, 2, at, a day (276 days)	4 50
Ship Carpenter, 1, at, a day (276 days)	5 00
Carpenters, 10, at, a day (276 days)	5 00
Wiremen, 4, at, a day (365 days)	4 50
Wiremen, 4, at, a day (276 days)	4 50
Inspectors of Electric Lighting and Conductors, 2, at, a day (365 days)	4 50
Inspector of Masonry, 1, at, a day (276 days)	5 00
Pavers, 6, at, a day (276 days)	5 00
Rammers, 2, at, a day (276 days)	4 00
Blacksmith's Helper, 1, at, a week (52 weeks)	25 00
Blacksmith's Helpers, 2, at, a day (276 days)	3 00
Decorator, 1, at, a day (276 days)	4 50
Painters and Bridge Painters, 35, at, a day (276 days)	4 00
Watchmen, 5, at, a day (365 days)	2 50
Cleaners, 3, at, a day (365 days)	2 00
Attendants, 6, at, a day (365 days)	2 50
Laborers, 4, at, a day (365 days)	3 00
Laborers, 2, at, a day (312 days)	3 00
Laborers, 12, at, a day (365 days)	2 50
Laborers, 23, at, a day (312 days)	2 50
Brick Mason (Layer), 1, at, a day (276 days)	5 60

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Borough of The Bronx, requesting, and report of the Comptroller recommending, approval of the schedules, as revised, for said Department for the year 1911, Corporate Stock Accounts C-DP-311C and C-DP-312B, providing for additional time for foremen, etc.:

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, June 28, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller,* 280 Broadway, New York City:

Sir—Kindly have revised the schedule on the following Corporate Stock Fund accounts:

C-DP-311C. Department of Parks, Borough of The Bronx, Improvement of Easterly and Westerly portion of Crotona Park. Add to Foreman, at $1,200, one-half month; add to double teams, at $4.50, 18 days.

Schedule as revised—

Foreman (2½ months)	at	$1,200 00
Gardeners (10 months)	at	900 00
Laborers (260 days)	at	2 50
Double teams (68 days)	at	4 50

C-DP-312B. Department of Parks, Borough of The Bronx. Road to connect Bronx Park system with roads in Botanical Garden. Add to Foreman, at $1,200, 28 days; add to Steam Roller Engineman, at $4.50, 18 days; add to Stokers, at $3, 18 days; Blasters, at $4, 10 days.

Schedule as revised—

Foremen (6 months, 28 days)	at	$1,200 00
Laborers (2,340 days)	at	2 50
Steam Roller Engineman (84 days)	at	4 50
Stokers (74 days)	at	3 00
Blasters (46 days)	at	4 00
Double teams (156 days)	at	4 50

Yours truly, T. J. HIGGINS, Commissioner of Parks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Commissioner of Parks, Borough of The Bronx, under date of June 28, 1911, for modification of the corporate stock schedules, C-DP-311C, Improvement of Easterly and Westerly Portions of Crotona Park, and C-DP-312B, Road to Connect Bronx Park System with Roads in Botanical Gardens, I report as follows:

In No. 311C it is proposed to add a foremen at $1,200 per annum, for one-half month, and double teams at $4.50 per day for 18 days. In No. 312B additional days are asked for as follows:

Foreman, at, per annum (28 days)	$1,200 00
Steam Roller Engineman, at, per day (18 days)	4 50
Stokers. at, per day (18 days)	3 00
Blasters, at, per day (10 days)	4 00

edules for these improvements were based upon an estimate of the Chief Engineer. The Commissioner states that it was impossible at the time to estimate the exact number of days necessary to complete the work, for the reason that the nature of the excavation could not be determined.

Now that the improvements are well under way and the percentages of earth and rock excavation are known, the Commissioner states that with the additional time requested he can complete the work.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised for the Department of Parks, Borough of The Bronx, for the year 1911, as follows:

Department of Parks, The Bronx.

Improvement of Easterly and Westerly Portions of Crotona Park—

C-DP-311C.	Foreman, at, per annum (2½ months)	$1,200 00
	Gardeners, at, per annum (10 months)	900 00

	Laborers, at, per diem (260 days)	2 50
	Double Teams, at, per diem (68 days)	4 50
	Road to Connect Bronx Park System with Roads in Botanical Garden—	
C-DP-312B.	Foreman, at, per annum (7 months)	$1,200 00
	Laborers, at, per diem (2,340 days)	2 50
	Steam Roller Engineman, at, per diem (84 days)	4 50
	Stokers, at, per diem (74 days)	3 00
	Blasters, at, per diem (46 days)	4 00
	Double Teams, at, per diem (156 days)	4 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Commissioner of Water Supply, Gas and Electricity submitting estimate of amounts required to be appropriated during 1911 (section 242 of the Charter) for the maintenance, extension and improvement of the water supply system, Borough of Brooklyn, and report of the Comptroller recommending that the additional sum of $950,141 be set aside and appropriated from the water revenues received in the Borough of Brooklyn during said year for this purpose, and that appropriations for salaries, for salaries of temporary employees, for wages regular employees, and for wages temporary employees be administered in accordance with the schedules approved by this Board:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, March 14, 1911.

Joseph Haag, Esq., *Secretary, Board of Estimate and Apportionment:*

Dear Sir—Herewith is transmitted an estimate of the amounts required to be apprpopriated, in pursuance of section 242 of the Charter, for the maintenance, extension and improvement of the water supply system of the Borough of Brooklyn.

A provisional allowance, estimated to be sufficient for the Department's needs for a period of three months, was made in December, and that amount, as well as the additional sums afterward requested for various purposes, is included.

Yours truly, HENRY S. THOMPSON, Commissioner.

Water Supply, All Boroughs, Administration, Office of Chief Engineer, Salaries and Wages.

No comparison between the estimate for 1911 and the appropriation and transfers for 1910 has been made. It is impossible to make such comparison, owing to the reorganization of the Department. The employees here included in the office of the Chief Engineer are charged to various accounts in 1910.

Schedule of Salaries.	Estimate for 1911.		
Title of Position.	Rate.	No. of Employees.	Amount.
Chief Engineer (part salary)	$10,000 00	1	$2,222 22
Consulting Engineer (⅜ salary)	4,000 00	1	1,500 00
Deputy Chief Engineer (part salary)	7,500 00	1	1,566 66
Assistant Engineer (part salary)	2,100 00	1	466 66
Assistant Engineer (part salary)	1,800 00	1	400 00
Stenographer (part salary)	1,350 00	1	300 00
Stenographer (part salary)	1,200 00	1	266 67
Messengeer (part salary)	1,200 00	1	266 67
Automobile Engineman (part salary)	1,200 00	1	266 67
Junior Clerk (part salary)	300 00	1	66 67
		10	$7,422 22

Part salaries apportioned as follows: One-third to corporate stock; four-ninths to tax levy, all Boroughs; two-ninths to water revenue, Brooklyn.

Water Supply, All Boroughs, Administration, Contract and Statistics, Salaries and Wages.

No comparison between the estimate for 1911 and the appropriation and transfers for 1910 has been made. It is impossible to make such comparison, owing to the reorganization of the Department. The employees included in this Division are at present charged to various accounts. The work of this Division includes work not formerly carried on by any particular Division of the Engineering Bureau.

Schedule of Salaries. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Assistant Engineer (part salary)	$3,500 00	1	$291 67
Clerk (part salary)	1,800 00	1	300 00
File Clerk (part salary)	1,500 00	1	250 00
Clerk (part salary)	1,050 00	2	350 00
Clerk (part salary)	900 00	3	450 00
Junior Clerk (part salary)	300 00	4	200 00
Stenographer and Typewriter (part salary)	1,050 00	1	87 50
Typewriter Copyist (part salary)	900 00	2	300 00
Total		15	$2,229 17

Salaries apportioned as follows: Of Assistant Engineer and of Stenographer, three-fourths to corporate stock; one-sixth to tax levy, all Boroughs; one-twelfth to water revenue, Brooklyn. Of other employees: One-half to corporate stock; one-third to tax levy; one-sixth to water revenue, Brooklyn.

Water Supply, All Boroughs, Administration, Pitometer Investigation, Salaries and Wages.

No comparison between the estimate for 1911 and the appropriation and transfers for 1910 has been made. It is impossible to make such comparison, owing to the reorganization of the Department. The employees included in this Division are at present charged to various accounts. The work of this Division includes work not formerly carried on by any particular Division of the Engineering Bureau.

Schedule of Salaries. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Assistant Engineer (part salary)	$2,400 00	1	$400 00
Assistant Engineer (part salary)	1,800 00	1	300 00
Transitman (part salary)	1,800 00	1	300 00
Rodman (part salary)	1,200 00	1	200 00
Rodman (part salary)	1,050 00	2	350 00
Draftsman (part salary)	1,800 00	1	300 00
Draftsman (part salary)	1,500 00	1	250 00
Junior Clerk (part salary)	300 00	1	50 00
Total		9	$2,150 00

Salaries apportioned as follows: One-half to corporate stock; one-third to tax levy, all Boroughs; one-sixth to water revenue, Brooklyn.

Water Supply, All Boroughs, Administration, Real Estate, Salaries and Wages.

No comparison between the estimate for 1911 and the appropriation and transfers for 1910 has been made. It is impossible to make such comparison, owing to the reorganization of the Department. The employees included in this Division are at present charged to various accounts. The work of this Division includes work not formerly carried on by any particular Division of the Engineering Bureau.

Schedule of Salaries. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Assistant Engineer (part salary)	$3,000 00	1	$500 00
Assistant Engineer (part salary)	1,800 00	1	300 00
Rodman (part salary)	1,050 00	2	350 00
Draftsman (part salary)	1,350 00	1	225 00
Junior Draftsman (part salary)	900 00	1	150 00
Typewriter Copyist (part salary)	900 00	1	150 00
Total		7	$1,675 00

Salaries apportioned as follows: One-half to corporate stock; one-third to tax levy, all Boroughs; one-sixth to water revenue, Brooklyn.

Water Supply, All Boroughs, Administration, Laboratories, Salaries and Wages.

The appropriation for laboratories in 1910 was made from tax levy. It is proposed to charge the work of this Division partly to tax levy, partly to water revenue, Brooklyn, and partly to corporate stock, as shown below.

Schedule of Salaries and Wages. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Chief Chemist (part salary)	$3,500 00	1	$777 78
Chemist (part salary)	1,950 00	1	433 33
Chemist (part salary)	1,500 00	4	1,333 33
Chemist (full salary)	1,200 00	1	1,200 00
Chemist (part salary)	1,200 00	1	266 67
Bacteriologist (part salary)	1,800 00	1	600 00
Bacteriologist (part salary)	1,200 00	3	1,200 00
Laboratory Assistant (part salary)	900 00	7	1,400 00
Clerk (Stenographer) (part salary)	1,200 00	1	266 67
Clerk (part salary)	1,050 00	1	233 33
Laborer, 365 days (part wages)	2 50	6	1,825 00
Total		27	$9,536 11

Salaries apportioned as follows: Of Chemists, Laboratory Assistant and Clerks, one-third to corporate stock; four-ninths to tax levy, all Boroughs; two-ninths to water revenue, Brooklyn. Of Bacteriologists and Laborers: Two-thirds to tax levy, all Boroughs; one-third to water revenue, Brooklyn.

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Salaries and Wages.

Appropriation and Transfers for 1910	$24,575 00
Estimate for 1911	10,162 50
Decrease	$14,412 50

Schedule of Salaries. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Principal Assistant Engineer, in charge of Borough (part salary)	$4,500 00	1	$3,375 00
Assistant Engineer (full salary)	2,400 00	1	2,400 00
Clerk (part salary)	1,650 00	1	1,237 50
Clerk (part salary)	900 00	1	675 00
Stenographer and Typewriter (part salary)	900 00	1	675 00
Telephone Operator (part salary)	900 00	1	675 00
Automobile Engineman (part salary)	1,500 00	1	1,125 00
Total salaries		7	$10,162 50

Salaries apportioned as follows: Three-fourths to water revenue; one-fourth to corporate stock.

Maintenance and Distribution of Water Supply in the Borough of Brooklyn, Water Registration, Permits and Revenue Collection, Salaries and Wages.

Title.	Rate.	No.	Amount.
Water Registrar	$4,000 00	1	$4,000 00
Cashier	2,250 00	1	2,250 00
Financial Clerk	2,100 00	1	2,100 00
Clerk	2,250 00	1	2,250 00
Clerk	1,650 00	3	4,950 00
Clerk	1,350 00	5	6,750 00
Clerk	1,200 00	9	10,800 00
Clerk	1,050 00	8	8,400 00
Clerk	900 00	28	25,200 00
Stenographer	1,200 00	2	2,400 00
Stenographer	1,050 00	4	4,200 00
Clerk, temporary	900 00	6	1,350 00
Clerk	540 00	1	540 00
Messenger	1,050 00	1	1,050 00
Inspector of Meters and Water Consumption	2,100 00	1	2,100 00
Inspector of Meters and Water Consumption	1,500 00	2	3,000 00
Inspector of Meters and Water Consumption	1,200 00	8	9,600 00
Inspector of Meters and Water Consumption	1,100 00	70	77,000 00
Inspector of Manufactories	1,250 00	1	1,250 00
Inspector of Plumbing	1,200 00	1	1,200 00
Inspector of Taps	1,100 00	2	2,200 00
Inspector of Hydrants and Stopcocks	1,500 00	1	1,500 00
Measurer	1,500 00	1	1,500 00
Measurer	1,100 00	1	1,100 00
Foreman	1,800 00	1	1,800 00
Assistant Foreman, 313 days, at	3 00	1	939 00
Caulker, 313 days, at	4 00	1	1,252 00
Plumber, 313 days, at	3 50	1	1,095 50
Laborer, Rockman, 313 days, at	3 00	1	939 00
Laborer, 313 days, at	2 50	3	2,347 50
Driver, 313 days, at	2 50	1	782 50
		160	$185,845 50

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Operation, Salaries and Wages.

Appropriation and transfers for 1910		$525,000 00
Estimate for 1911—		
Salaries	$492,782 50	
Wages	58,400 00	
		551,182 50
Increase		$26,182 50

Schedule of Salaries. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Mechanical Engineer (part salary)	$4,500 00	1	$2,250 00
Mechanical Engineer (part salary)	4,000 00	1	2,000 00
Mechanical Engineer (part salary)	1,800 00	1	900 00
Mechanical Draftsman (full salary)	1,500 00	1	1,500 00
Clerk (full salary)	1,500 00	2	3,000 00
Clerk (full salary)	900 00	1	900 00
Clerk (full salary)	600 00	2	1,200 00
Stenographer (full salary)	1,200 00	1	1,200 00
Stenographer (full salary)	1,050 00	1	1,050 00

Schedule of Salaries. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Clerk (full salary)	540 00	1	540 00
Storekeeper (full salary)	1,200 00	1	1,200 00
Coal Inspector (full salary)	1,200 00	2	2,400 00
Telephone Operator (full salary)	900 00	4	3,600 00
Engineman (full salary)	2,500 00	2	5,000 00
Engineman (full salary)	1,800 00	6	10,800 00
Engineman (full salary)	1,750 00	33	57.750 00
Engineman, 365 days (full salary)	4 50	93	152,752 50
Oiler, 365 days (full salary)	1,095 00	43	47,085 00
Stoker, 365 days (full salary)	1,095 00	181	198,195 00
Cleaner (full salary)	360 00	1	360 00
Total		378	$492,782 50

Part salaries apportioned as follows: One-half to Water Revenue, one-half to Corporate Stock.

Schedule of Wages. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Coal Passers, 365 days	$2 50	7	$6,387 50
Laborers, 365 days	2 50	57	52,012 50
Total wages		64	$58,400 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Maintenance, Salaries and Wages.

Appropriations for 1910	$54,500 00
Estimate for 1911, wages	56,886 00
Increase	$2,386 00

Schedule of Wages. Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Foreman Machinist, 313 days	$5 00	1	$1,565 00
Machinist, 313 days	4 50	9	12,676 50
Machinist Helper, 313 days	3 00	5	4,695 00
Steamfitter, 313 days	3 50	1	1,095 50
Pipefitter, 313 days	3 50	6	6,573 00
Pipefitter Helper, 313 days	3 00	1	939 00
Pipefitter Helper, 313 days	2 50	2	1,565 00
Boilermaker, 313 days	4 00	4	5,008 00
Blacksmith, 313 days	4 50	2	2,817 00
Blacksmith Helper, 313 days	3 00	2	1,878 00
Wireman, 313 days	3 00	1	939 00
Foreman, 365 days	4 00	2	2,920 00
Foreman, 365 days	2 50	1	912 50
Laborer, 313 days	2 50	17	13,302 50
Total wages		54	$56,886 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Maintenance of Buildings, Salaries and Wages.

Appropriation and transfers for 1910		$51,000 00
Estimate for 1911—		
Salaries	$5,100 00	
Wages	44,397 80	
		49,497 80
Decrease		$1,502 20

Schedule of Salaries.

Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Inspector	$1,800 00	1	$1,800 00
Foreman Painter	1,800 00	1	1,800 00
Carpenter	1,500 00	1	1,500 00
Total salaries		3	$5,100 00

Schedule of Wages.

Title of Position.	Estimate for 1911. Rate.	No. of Employees.	Amount.
Foreman of Carpenters, 313 days	$4 50	1	$1,408 50
Carpenter, 313 days	4 50	5	7,042 50
Painter, 313 days	4 50	1	1,408 50
Painter, 313 days	4 00	4	5,008 00
Bricklayer, 313 days	5 60	3	5,258 40
Mason, 313 days	5 60	3	5,248 40
Mason's Helper, 313 days	3 50	1	1,095 50
Mason's Helper, 313 days	2 75	4	3,443 00
Tinsmith, 313 days	4 00	1	1,252 00
Cement Worker, 313 days	3 00	1	939 00
Laborer, Rockman, 313 days	3 00	1	939 00
Driver, 313 days	2 50	1	782 50
Hostler, 365 days	2 50	1	912 50
Watchman, 365 days	2 50	2	1,825 00
Laborer, 313 days	2 50	10	7,825 00
Total wages		39	$44,397 80

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Salaries and Wages.

Appropriation and Transfers for 1910—		
Included in appropriation for "Salaries, Real Estate Division"		$21,250 00
Included in appropriation for "Salaries and Wages, Watersheds, Aqueducts, Ponds and Wells"		100,000 00
Total for 1910		$121,250 00
Estimate for 1911—		
Salaries	$10,825 00	
Wages	102,358 00	
		$113,183 00
Decrease		$8,067 00

Schedule of Salaries.

Title of Position.	Estimate for 1911.		
	Rate.	No. of Employees.	Amount.
Assistant Engineer (part salary)	$3,500 00	1	$1,750 00
Assistant Engineer (full salary)	2,400 00	1	2,400 00
Assistant Engineer (part salary)	1,800 00	1	900 00
Draftsman (part salary)	1,800 00	1	900 00
Chemist (full salary)	1,200 00	1	1,200 00
Clerk (full salary)	1,050 00	1	1,050 00
Clerk (part salary)	900 00	1	450 00
Stenographer and Typewriter (part salary)	1,050 00	1	525 00
Inspector (part salary)	1,800 00	1	900 00
Foreman (part salary)	1,500 00	1	750 00
Total salaries		10	$10,825 00

Salaries apportioned as follows: One-half to water revenue; one-half to corporate stock.

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Salaries and Wages—Schedule of Wages.

Title of Position.	Estimate for 1911.		
	Rate.	No. of Employees.	Amount.
Foreman (full salary), 313 days	$5 00	1	$1,565 00
Foreman (full salary), 365 days	4 00	1	1,460 00
Foreman (part salary), 313 days	3 00	2	939 00
Assistant Foreman (full salary), 313 days	3 50	1	1,095 50
Assistant Foreman (full salary), 365 days	3 00	1	1,095 00
Assistant Foreman (full salary), 313 days	3 00	2	1,878 00
Well Driver (part salary), 313 days	3 00	5	2,347 50
Assistant Well Drivers (full salary), 313 days	2 50	5	1,956 25
Assistant Pond Keeper (full salary), 365 days	2 50	1	912 50
Carpenter (full salary), 313 days	4 50	1	1,408 50
Painter (full salary), 313 days	4 00	1	1,252 00
Driver (full salary), 313 days	2 50	1	782 50
Cleaner (full salary), 365 days	2 50	1	912 50
Laborer (part salary), 313 days	2 50	25	9,781 25
Laborer (full salary), 365 days	2 50	41	37,412 50
Laborer (full salary), 313 days	2 50	48	37,560 00
Total wages		137	$102,358 00

Part salaries apportioned as follows: One-half to water revenue; one-half to corporate stock.

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Salaries and Wages.

Appropriation and transfers for 1910		$308,000 00
Estimate for 1911—		
Salaries	$34,322 50	
Wages	257,863 05	
		$292,185 55
Decrease		$15,814 45

Schedule of Salaries.

Title of Position.	Estimate for 1911.		
	Rate.	No. of Employees.	Amount.
Assistant Engineer (part salary)	$3,000 00	1	$2,250 00
Transitman (part salary)	1,650 00	1	825 00
Leveler (part salary)	1,500 00	1	375 00
Leveler (part salary)	1,350 00	1	675 00
Leveler (full salary)	1,200 00	1	1,200 00
Rodman (full salary)	1,050 00	1	1,050 00
Axeman (full salary)	900 00	2	1,800 00
Draftsman (part salary)	1,500 00	1	375 00
Junior Draftsman (part salary)	900 00	1	450 00
Clerk (part salary)	1,650 00	1	1,237 50
Clerk (part salary)	900 00	1	675 00
Clerk (full salary)	900 00	1	900 00
Clerk (full salary)	600 00	2	1,200 00
Clerk (full salary)	300 00	1	300 00
Stenographer (part salary)	1,200 00	1	900 00
Messenger (full salary)	1,200 00	1	1,200 00
Messenger (full salary)	900 00	1	900 00
Tapper (full salary)	1,200 00	6	7,200 00
Inspectors (full salary)	1,100 00	2	2,200 00
Foreman (part salary)	1,800 00	3	4,050 00
Keeper (full salary)	1,200 00	1	1,200 00
Hostler (full salary)	1,200 00	1	1,200 00
Cleaner (full salary)	360 00	5	1,800 00
Laundress (full salary)	360 00	1	360 00
Total salaries		38	$34.322 50

Salaries apportioned as follows: Of Assistant Engineers, Clerks, Stenographer and Foreman: Three-quarter to water revenue, one-quarter to corporate stock. Of one Transitman, one Leveler and one Draftsman: One-half to water revenue, one-half to corporate stock. Of one Leveler and one Draftsman: One-quarter to water revenue, three-quarters to corporate stock.

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Salaries and Wages—Schedule of Wages.

Title of Position.	Estimate for 1911.		
	Rate.	No. of Employees.	Amount.
Foreman, 365 days	$5 00	1	$1,825 00
Foreman Machinist, 365 days	5 00	1	1,825 00
Foreman, 365 days	4 00	2	2,920 00
Foreman, 340 days	4 00	7	9,520 00
Assistant Foreman, 365 days	4 00	2	2,920 00
Assistant Foreman, 340 days	4 00	5	6,800 00
Assistant Foreman, 365 days	3 00	1	1,095 00
Assistant Foreman, 340 days	3 00	2	2,040 00
Inspector, 340 days	4 00	2	2,720 00
Carpenter, 340 days	4 50	2	3,060 00
Plumber, 340 days	4 50	1	1,530 00
Painter, 313 days	4 00	1	1,252 00
Machinist, 340 days	4 50	5	7,650 00
Machinist's Helper, 340 days	3 00	5	5,100 00
Machinist's Apprentice, 340 days	2 50	1	850 00
Blacksmith, 313 days	4 50	3	4,225 50
Blacksmith's Helper, 313 days	3 00	3	2,817 00
Caulker, 365 days	4 00	4	5,840 00
Caulker, 340 days	4 00	42	57,120 00

Title of Position.	Estimate for 1911.		
	Rate.	No. of Employees.	Amount.
Valveman, 340 days	3 00	3	3,060 00
Driver, 365 days	2 50	5	4,562 50
Driver, 340 days	2 50	23	19,550 00
Hostler, 365 days	2 50	1	912 50
Stableman, 365 days	2 50	4	3,656 00
Watchman, 365 days	2 50	5	4,562 50
Storekeeper, 313 days	2 50	1	782 50
Laborer, 365 days	2 50	24	21,900 00
Laborer, 340 days	2 50	116	98,600 00
Laborer, 313 days	2 50	10	7,825 00
Total		284	$286,514 50
Less 10 per cent. to be charged to Corporate Stock Accounts			28,651 45
Total wages			$257,863 05

Salaries—Waste Investigation, etc.

Estimate for 1911 .... $56,500 00

Position.	Rate.	Amount.
Assistant Engineer (part salary)	$3,000 00	$1,000 00
Assistant Engineer (part salary)	1,800 00	1,500 00
Assistant Engineer (part salary)	1,500 00	1,250 00
Draftsman (part salary)	1,350 00	1,125 00
Draftsman (part salary)	900 00	750 00
Rodmen, 3 at (part salary)	1,200 00	3,000 00
Rodman (part salary	1,050 00	875 00
Stenographer and Typewriter (part salary)	900 00	300 00
Stenographers and Typewriters, 2 at (part salary)	1,200 00	1,800 00
Automobile Engineman (part salary)	1,200 00	400 00
Assistant Chief of Meter Setting	....	2,000 00
Inspector of Meter Setting	....	1,500 00
Inspectors of Meter Setting, 2 at	1,100 00	2,200 00
Clerk	....	1,800 00
Clerks, 2 at	900 00	1,800 00
Plumbers, 3 at (312 days)	4 50	4,212 00
Carpenters, 2 at (312 days)	4 50	2,808 00
Tapper (312 days)	4 00	1,040 00
Laborers, 13 at (312 days)	2 50	10,140 00
		$39,500 00
And for increase in force		17,000 00
Total		$56,500 00

Water Supply, All Boroughs, Administration, Office of Chief Engineer, General Supplies.

Appropriation and transfers for 1910	....
Estimate for 1911	$400 00
Increase	$400 00

Estimate for 1911—

Item.	Cost.
Miscellaneous office supplies	$400 00

Water Supply, All Boroughs, Administration, Office of Chief Engineer, Purchase of Furniture and Fittings.

Appropriation and transfers for 1910	....
Estimate for 1911	$500 00
Increase	$500 00

Estimate for 1911—

Item.	Cost.
Office furniture	$500 00

Water Supply, All Boroughs, Administration, Laboratories, General Supplies.

Appropriation and transfers for 1910	....
Estimate for 1911	$2,000 00
Increase	$2,000 00

Estimate for 1911—

Item.	Cost.
Miscellaneous supplies	$2,000 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, General Supplies.

Appropriation and transfers for 1910	$2,500 00
Estimate for 1911	150 00
Decrease	$2,350 00

Estimate for 1911—

Item.	Cost.
Books and periodicals	$15 00
Rubber stamps	10 00
Bottled water	25 00
Miscellaneous	100 00
	$150 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Purchase of Furniture and Fittings.

Appropriation and transfers for 1910	$150 00
Estimate for 1911	150 00

Estimate for 1911—

Item.	Cost.
Desk and chairs	$100 00
Filing cabinets	25 00
Typewriter repairs	25 00
	$150 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Purchase of Automobiles.

Appropriation and transfers for 1910	$1,500 00
Estimate for 1911	....
Decrease	$1,500 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Maintenance of Automobiles, Including Equipment, Care and Storage.

Appropriation and transfers for 1910	$700 00
Estimate for 1911	600 00
Decrease	$100 00

Estimate for 1911—

Item.	Cost.
Supplies, repairs and equipment	$600 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Hired Teams, Horses and Carts.

Appropriations and transfers for 1910	$1,800 00
Estimate for 1911	....
Decrease	$1,800 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Telephone Service.

Appropriation and transfers for 1910	$8,000 00
Estimate for 1911	7,500 00
Decrease	$500 00

Estimate for 1911—

Item.	Cost.
Telephone service	$7,500 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Taxes.

Appropriation and transfers for 1910	$41,000 00
Estimate for 1911	45,000 00
Increase	$4,000 00

Estimate for 1911—

Item.	Cost.
Taxes	$45,000 00

Water Supply, Borough of Brooklyn, Administration, Office of Borough Engineer, Contingencies.

Appropriation and transfers for 1910	$11,000 00
Estimate for 1911	6,530 00
Decrease	$4,470 00

Estimate for 1911—

Item.	Cost.
Transportation of employees, Long Island Railroad	$6,000 00
Postage	100 00
Expressage	50 00
Car fares	150 00
Telegrams	15 00
Messenger services	15 00
Miscellaneous	200 00
	$6,530 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Operation, General Supplies.

Appropriation and transfers for 1910	$15,000 00
Estimate for 1911	17,000 00
Increase	$2,000 00

Estimate for 1911—

Item.	Quantity.	Cost.
Cotton waste,	20,000 pounds	$1,500 00
Illuminating oils.	20,000 gallons	2,000 00
Lubricating oils and grease		6,000 00
Brooms and brushes		500 00
Rubber boots		250 00
Rubber coats		250 00
Rubber hose		600 00
Soap, polishing paste, etc.		400 00
Boiler compound		800 00
Engine room supplies		1,500 00
Rope and caulking yarn		100 00
Lamps and lanterns		200 00
Machines and tools		2,000 00
Ice		100 00
Metallic tubing and hose		500 00
Oil tanks		100 00
Tinware		100 00
Miscellaneous		100 00
		$17,000 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Operation, Purchase of Furniture and Fittings.

Appropriation and transfers for 1910	$400 00
Estimate for 1911	650 00
Increase	$250 00

Estimate for 1911—

Item.	Cost.
Desks, chairs, etc.	$300 00
Adding machine	350 00
	$650 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Operation, Maintenance of Automobiles, Including Equipment, Care and Storage.

Appropriation and transfers for 1910	$500 00
Estimate for 1911	1,000 00
Increase	$500 00

Estimate for 1911—

Item.	Quantity.	Cost.
Supplies and repairs	2	$800 00
Gasoline and motor oil	2	200 00
		$1,000 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Operation, Fuel.

Appropriation and transfers for 1910	$495,000 00
Estimate for 1911	554,800 00
Increase	$59,800 00

Estimate for 1911—

Item.	Quantity.	Cost.
Anthracite and mixed coal (16 months' supply), (tons)	120,400	$391,300 00
Semi-bituminous coal (16 months' supply), (tons)	43,000	163,500 00
		$554,800 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Operation, Contingencies.

Appropriation and transfers for 1910	$2,000 00
Estimate for 1911	1,300 00
Decrease	$700 00

Estimate for 1911—

Item.	Cost.
Postage	$500 00
Freight charges	500 00
Expressage	50 00
Carfare	150 00
Miscellaneous	100 00
	$1,300 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations, Operation, Water Purchased.

Appropriation and transfers for 1910	$220,000 00
Estimate for 1911	172,000 00
Decrease	$48,000 00

Estimate for 1911—

Item.	Cost.
Contract with Silas W. Titus for water from wells at Jameco	$22,000 00
Contract with Silas W. Titus for water from two pumping plants within City limits	110,000 00
Contract with Queens County Water Company	40,000 00
	$172,000 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, General Supplies.

Appropriation and transfers for 1910	$3,700 00
Estimate for 1911	3,100 00
Decrease	$600 00

Estimate for 1911—

Item.	Cost.
Tools, garden implements, etc	$1,500 00
Fire extinguishers and appurtenances	1,600 00
	$3,100 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, Materials for Repairs and Replacements by Departmental Labor.

Appropriation and transfers for 1910	$30,000 00
Estimate for 1911	28,250 00
Decrease	$1,750 00

Estimate for 1911—

Item.	Cost.
Brass castings, pipe fittings, etc	$1,000 00
Bar iron and steel	600 00
Grate bar castings	900 00
Iron castings, pipe fittings, etc	4,000 00
Sheet metal, iron and brass	300 00
Tobin bronze	400 00

Boiler tubes	3,000 00
Hardware	800 00
Gaskets	400 00
Brass and iron cocks	400 00
Brass and iron valves	1,500 00
Rubber valves	3,000 00
Leather belting, etc.	400 00
Packing	2,000 00
Pipe covering	300 00
Wire and wire screen	400 00
Glass	100 00
Air compressor parts	100 00
Brick	1,000 00
Cement	1,000 00
Fire clay	80 00
Lime	20 00
Lumber	3,000 00
Paints, varnishes, etc.	1,800 00
Electrical supplies	1,000 00
Tinsmith and plumbing supplies	750 00
	$28,250 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, Repairs and Replacements by Contract or Open Order.

Appropriation and transfers for 1910	$23,000 00
Estimate for 1911	58,300 00
Increase	$35,300 00

Estimate for 1911—

Item.	Cost.
Repairs to engines	$15,000 00
Repairs to boilers	5,000 00
General repairs to machinery	5,000 00
Repairs to coal scales	1,200 00
Repairs to railroad siding and trestle	1,000 00
Plumbing repairs	600 00
Removal of ashes	500 00
Repairs to buildings	30,000 00
	$58,300 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, Purchase of Automobiles.

Appropriation and transfers for 1910	....
Estimate for 1911	$2,000 00
Increase	$2,000 00

Estimate for 1911—

Item.	Quantity.	Cost.
Purchase of auto truck	1	$2,000 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, Apparatus—Machinery, Vehicles, Harness, etc., Including Care and Storage.

Appropriation and transfers for 1910	$1,000 00
Estimate for 1911	200 00
Decrease	$800 00

Estimate for 1911—

Item.	Cost.
Harness supplies	$100 00
Harness repairs	100 00
	$200 00

Water Supply, Borough of Brooklyn, Collection and Storage. Pumping Stations and Buildings, Maintenance, Forage, Shoeing and Boardina Horses.

Appropriation and transfers for 1910	$1,950 00
Estimate for 1911	1,750 00
Decrease	$200 00

Estimate for 1911—

Item.	Quantity.	Cost.
Forage	5	$1,450 00
Horseshoeing	5	300 00
		$1,750 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, Hired Teams, Horses and Carts.

Appropriation and transfers for 1910	$2,500 00
Estimate for 1911	900 00
Decrease	$1,600 00

Estimate for 1911—

Item.	Cost.
Carriage hire	$300 00
Team and truck hire	600 00
	$900 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, Contingencies.

Appropriation and transfers for 1910	$2,000 00
Estimate for 1911	1,000 00
Decrease	$1,000 00

Estimate for 1911—

Item.	Cost.
Carfare	$500 00
Expressage and freight	200 00
Miscellaneous	300 00
	$1,000 00

Water Supply, Borough of Brooklyn, Collection and Storage, Pumping Stations and Buildings, Maintenance, Expert Services.

Appropriation and transfers for 1910	$750 00
Estimate for 1911	....
Decrease	$750 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, General Supplies.

Appropriation and transfers for 1910	$5,000 00
Estimate for 1911	5,300 00
Increase	$300 00

Estimate for 1911—

Item.	Quantity.	Cost.
Rubber boots, pairs	180	$630 00
Rubber and oilskin coats	50	100 00
Brooms and brushes	......	70 00
Lamps and lanterns	......	50 00
Illuminating oils	......	60 00
Lubricating oils and grease	......	70 00
Chloride of lime, pounds	20,000	300 00
Salt, pounds	1,000	10 00

Item.	Quantity.	Cost.
Alum, pounds	150,000	1,635 00
Soda ash, pounds	20,000	200 00
Filter sand, pounds	50,000	40 00
Cotton waste, bale	1	10 00
Tools	......	600 00
Tinware	......	50 00
Hardware	......	800 00
Galvanized iron pails	......	10 00
Rubber hose	......	200 00
Rope	......	100 00
Seed	......	100 00
Toilet supplies	......	65 00
Miscellaneous	......	200 00
		$5,300 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Purchase of Furniture and Fittings.

Appropriation and transfers for 1910	....
Estimate for 1911	$150 00
Increase	$150 00

Estimate for 1911—

Item.	Cost.
Desks, chairs, etc	$150 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Materials for Repairs and Replacements by Departmental Labor.

Appropriation and transfers for 1910	$6,000 00
Estimate for 1911	6,100 00
Increase	$100 00

Estimate for 1911—

Item.	Cost.
Lime	$50 00
Cement	30 00
Brick	100 00
Lumber	1,500 00
Iron pipe and fittings	3,000 00
Wire cloth	10 00
Sand and gravel screens	10 00
Paints, varnishes, etc	400 00
Locust fence posts	1,000 00
	$6,100 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Repairs and Replacements by Contract or Open Order.

Appropriation and transfers for 1910	$200 00
Estimate for 1911	360 00
Increase	$160 00

Estimate for 1911—

Item.	Cost.
Repairs to buildings	$120 00
Plumbing repairs	240 00
	$360 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Apparatus—Machinery, Vehicles, Harness, etc., Including Care and Storage.

Appropriation and transfers for 1910	$600 00
Estimate for 1911	1,600 00
Increase	$1,000 00

Estimate for 1911—

Item.	Cost.
Wagon repairs	$150 00
Harness repairs	200 00
New harness	240 00
New wagons, sleds, ploughs, etc	850 00
Stable supplies	160 00
	$1,600 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Maintenance of Automobiles, Including Equipments, Care and Storage.

Appropriation and transfers for 1910	$400 00
Estimate for 1911	1,000 00
Increase	$600 00

Estimate for 1911—

Item.	Quantity.	Cost.
Supplies and repairs	2	$800 00
Gasoline, gallons	2	200 00
		$1,000 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Forage, Shoeing and Boarding Horses.

Appropriation and transfers for 1910	$1,750 00
Estimate for 1911	1,960 00
Increase	$210 00

Estimate for 1911—

Item.	Quantity.	Cost.
Forage	10	$1,660 00
Horseshoeing	10	300 00
		$1,960 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Hired Teams, Horses and Carts.

Appropriation and transfers for 1910	$7,500 00
Estimate for 1911	9,390 00
Increase	$1,890 00

Estimate for 1911—

Item.	Quantity.	Cost.
Team and truck hire at $5 per day for 313 days	6	$9,390 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Fuel.

Appropriation and transfers for 1910	$150 00
Estimate for 1911	270 00
Increase	$120 00

Estimate for 1911—

Item.	Quantity.	Cost.
Nut coal, tons	15	$90 00
Stove coal, tons	15	90 00
Egg coal, tons	15	90 00
		$270 00

Water Supply, Borough of Brooklyn, Collection and Storage, Watersheds, Aqueducts, Ponds and Wells, Contingencies.

Appropriation and transfers for 1910	$200 00
Estimate for 1911	800 00
Increase	$600 00

Estimate for 1911—

Item.	Cost.
Gas	$100 00
Carfare	500 00
Miscellaneous	200 00
	$800 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance—General Supplies.

Appropriation and transfers for 1910	$4,500 00
Estimate for 1911	6,750 00
Increase	$2,250 00

Estimate for 1911—

Item.	Quantity.	Cost.
Rubber boots, pairs	200	$750 00
Rubber coats	100	300 00
Tapping cocks	5,000	2,500 00
Brushes and brooms	......	80 00
Gauges	......	50 00
Suction pumps and fittings	......	200 00
Kerosene and lubricating oils	......	400 00
Tools	......	1,000 00
Rubber hose	......	200 00
Lanterns and globes	......	100 00
Rope	......	200 00
Hardware	......	30 00
Tinware, pails, etc	......	100 00
Leather belting, lacing, etc	......	40 00
Drafting supplies	......	500 00
Miscellaneous	......	300 00
		$6,750 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Purchase of Furniture and Fittings.

Appropriation and transfers for 1910	....
Estimate for 1911	$100 00
Increase	$100 00

Estimate for 1911—

Item.	Cost.
Desks and chairs	$100 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Materials for Repairs and Replacements by Departmental Labor.

Appropriation and transfers for 1910	$15,000 00
Estimate for 1911	11,730 00
Decrease	$3,270 00

Estimate for 1911—

Item.	Quantity.	Cost.
Lead, pounds	90,000	$4,500 00
Caulking yarn, pounds	6,000	180 00
Packing, gaskets, etc	....	2,000 00
Hydrant fittings, etc	....	150 00
Iron pipe and fittings	....	270 00
Paints, varnishes, etc	....	250 00
Brick and cement	....	210 00
Cotton waste	....	110 00
Tool steel	....	400 00
Brass castings	....	1,200 00
Bronze castings	....	400 00
Iron castings	....	240 00
Bolts, nuts, screws, etc	....	250 00
Iron rods and fittings	....	200 00
Rolled and sheet brass	....	100 00
Hammers, sledges, axes	....	500 00
Lead pots, etc	....	270 00
Miscellaneous	....	500 00
		$11,730 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Repairs and Replacements by Contract or Open Order.

Appropriation and transfers for 1910	$65,500 00
Estimate for 1911	24,000 00
Decrease	$41,500 00

Estimate for 1911—

Item.	Cost.
Repairs to pavements	$5,000 00
Repairs to buildings	3,000 00
Painting hydrants	6,000 00
Cleaning mains	10,000 00
	$24,000 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Apparatus—Machinery, Vehicles, Harness, etc., Including Care and Storage.

Appropriation and transfers for 1910	$3,500 00
Estimate for 1911	4,900 00
Increase	$1,400 00

Estimate for 1911—

Item.	Cost.
Repairs to wagons	$3,500 00
Repairs to harness	300 00
Harness	400 00
Stable supplies	700 00
	$4,900 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Purchase of Horses.

Appropriation and transfers for 1910	$500 00
Estimate for 1911	1,200 00
Increase	$700 00

Estimate for 1911—

Item.	Quantity.	Cost.
Purchase of horses	4	$1,200 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Forage, Shoeing and Boarding Horses.

Appropriation and transfers for 1910	$13,850 00
Estimate for 1911	11,400 00
Decrease	$2,450 00

Estimate for 1911—

Item.	Quantity.	Cost.
Forage	40	$9,500 00
Shoeing horses	40	1,800 00
Boarding horses	......	100 00
		$11,400 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Hired Teams, Horses and Carts.

Appropriation and transfers for 1910	$600 00
Estimate for 1911	100 00
Decrease	$500 00

Estimate for 1911—

Item.	Cost.
Horse and wagon hire	$100 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Fuel.

Appropriation and transfers for 1910	$1,200 00
Estimate for 1911	1,890 00
Increase	$690 00

Estimate for 1911—

Item.	Quantity.	Cost.
Egg coal, tons	240	$1,440 00
Nut coal, tons	15	90 00
Wood, cords	30	360 00
		$1,890 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Contingencies.

Appropriation and transfers for 1910	$700 00
Estimate for 1911	650 00
Decrease	$50 00

Estimate for 1911—

Item.	Cost.
Traveling expenses	$250 00
Postage, etc.	50 00

Expressage, etc.	50 00
Miscellaneous	300 00
	$650 00

Water Supply, Borough of Brooklyn, Distribution, Maintenance, Special Contract Obligations—Fire Hydrant Rentals.

Appropriation and transfers for 1910	$30,000 00
Estimate for 1911	33,150 00
Increase	$3,150 00

Estimate for 1911—

Item.	Quantity.	Cost.
Contract with Flatbush Water Works Company	......	$30,000 00
Contract with Blythebourne Water Company, hydrants	175	3,150 00
		$33,150 00

Water Supply, Borough of Brooklyn, Administration, Bureau of Water Registrar—General Supplies.

Estimate for 1911 $300 00

Item.	Cost.
Bottled water and ice	$120 00
Rubber stamps	60 00
Towel service	40 00
Miscellaneous supplies	80 00
	$300 00

Water Supply, Borough of Brooklyn, Administration, Bureau of Water Registrar—Purchase of Furniture and Fittings.

Estimate for 1911 $12,591 47

Filing cases, desks and chairs, typewriting and adding machines, and rearrangement of the office.

Water Supply, Borough of Brooklyn, Administration, Bureau of Water Registrar—Contingencies.

Estimate for 1911 $1,350 00

Item.	Cost.
Postage	$800 00
Expressage	50 00
Carfares	300 00
Incidentals	200 00
	$1,350 00

Waste Investigation, etc.

Estimate for 1911	$22,650 00
General supplies	15,000 00
Purchase of furniture and fittings	250 00
Maintenance of automobiles, including equipment, care and storage	1,500 00
Hired teams, horses and carts	5,400 00
Contingencies	500 00
	$22,650 00

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 14, 1911, the Commissioner of Water Supply, Gas and Electricity submitted his estimate for appropriations from the Brooklyn water revenues, pursuant to the provisions of section 242 of the Greater New York Charter, for the maintenance, extension and improvement of the water supply system of the

Borough of Brooklyn during 1911. A preliminary report on the estimate was submitted to your Board on April 4, 1911. I now report finally as follows:

The total of the estimates, as originally submitted was $2,403,226.82. On April 28, 1911, an additional appropriation of $3,900 was asked for, to provide for certain contingent expenses of the Bureau of Water Registrar, making the total $2,407,126.80. Of this amount, $1,285,150 has already been appropriated. An additional appropriation of $950,141 is herewith recommended, making a total allowance for 1911 of $2,235,291.

For the purposes of this report the estimate has been segregated into seventy-nine separate items. For the original detailed estimate no distinction was made between the requirement for the wages of regular and temporary employees, and all employees receiving compensation at an annual rate were provided for in salary schedules. For this reason the amounts requested as noted in the report differ from the items appearing in the Commissioner's estimate.

In my preliminary report I stated as follows:

"Owing to the reorganization of the maintenance and construction force, by the establishment of departmental divisions and the prorating of certain divisional payrolls against budget, corporate stock, and special or trust funds, an exact comparison cannot be made at present between the estimated requirements for 1911 and the actual expenditures for 1910."

Certain items for supplies and contingencies charged against budgetary accounts in 1910 are now charged against appropriations from the Brooklyn water revenues.

The total water revenues collected in the Borough of Brooklyn during the calendar years 1904 to 1910, inclusive, were as follows:

Calendar Year.	Collected by Bureau of Water Rates, Department of Water Supply, Gas and Electricity.	Collected by Bureau for Collection of Taxes.	Collected by Bureau for Collection of Assessments and Arrears.	Total Collections.
1904........................	$2,462,483 87	$82,907 11	$130,010 97	$2,675,401 95
1905........................	2,725,444 09	87,024 86	129,198 17	2,941,667 12
1906........................	2,942,102 82	114,523 66	133,463 08	3,190,089 56
1907........................	2,894.289 97	61,634 64	121,469 75	3,077,394 36
1908........................	2,854,007 25	106,615 60	93,864 65	3,054,487 50
1909........................	3,148,058 89	147,972 48	146,421 07	3,442,452 54
1910........................	3,258,114 96	166,966 10	264,419 50	3,689,500 56

It appears, therefore, that the 1911 water revenues should be more than ample to provide for all the estimated maintenance charges.

An examination of the estimated cost of the various items included in the Commissioner's request, compared with the approximate expenditures for similar items in 1910; and an analysis of the annual payroll cost of the existing salaries and wages schedules from the basis of recommendations as follows:

General Classification of Accounts.	Estimated Requirements for 1911.	Additional Appropriations Recommended in this Report.	Total Amount Recommended for 1911.	Approximate Expenditures and Outstanding Liabilities Against 1910 Appropriations.
Salaries and Wages...	$1,338,455 35	$627,071 00	$1,266,521 00	$1,221,074 53
General Supplies......	50,000 00	6,000 00	32,300 00	48,071 84
Purchase of Furniture and Fittings.........	14,391 47	650 00	13,500 00	2,132 26
Maintenance of Automobiles	4,100 00	850 00	2,250 00	1,642 10
Materials for Repairs and Replacements by Departmental Labor.	46,080 00	8,500 00	36,000 00	40,303 09

General Classification of Accounts.	Estimated Requirements for 1911.	Additional Appropriations Recommended in this Report.	Total Amount Recommended for 1911.	Approximate Expenditures and Outstanding Liabilities Against 1910 Appropriations.
Repairs and Replacements by Contract or Open Order.........	82,660 00	37,160 00	68,360 00	84,021 23
Apparatus, Machinery, Vehicles, Harness, etc.	6,700 00	50 00	5,350 00	3,695 41
Purchase of Auto-truck	2,000 00	2,000 00	2,000 00	....
Forage, Shoeing and Boarding Horses....	15,110 00	3,710 00	12,710 00	11,093 24
Purchase of Horses....	1,200 00	100 00	700 00	335 00
Hired Teams, Horses and Carts...........	15,790 00	5,200 00	12,000 00	9,641 00
Telephone Service.....	7,500 00	3,500 00	7,000 00	6,860 87
Taxes	45,000 00	37,500 00	45,000 00	39,086 14
Fuel	556,960 00	160,300 00	531,450 00	489,442 67
Fire Hydrant Rentals and Water Purchased	205,150 00	55,000 00	188,150 00	205,989 16
Contingencies	16,030 00	2,550 00	12,000 00	11,700 68
	$2,407,126 82	$950,141 00	$2,235,291 00	$2,175,089 22

The expenditures for 1908 and 1909, respectively, were $2,046,363 and $2,120,903. The increased cost for 1911 is offset by the increase in the amount of water pumped and the higher wages for laborers and mechanics.

The annual payroll cost of $1,307,168.15, on the basis of the existing schedules, prorated; the actual payroll charges from January 1 to May 31, 1911, together with estimated payroll requirements for the balance of 1911; and the total estimated payroll charges for the entire year are detailed in the following table:

Salaries and Wages.

Code No.	Title of Accounts.	Annual Payroll Cost of Existing Schedules as Prorated 1911.	Estimated Payrolls June 1, to December 31, on Schedule Basis 1911.	Actual Payroll Expenditures January 1, to May 31, 1911.	Total Estimated Requirements on Schedule Basis 1911.
	General Administration.				
S-208.	Salaries, Chief Engineer...	$7,392 00	$4,312 00	$2,850 72	$7,162 72
S-209.	Salaries, Contracts and Statistics	3,057 00	1,783 25	1,088 06	2,871 31
S-210.	Salaries, Pitometer Investigation	2,150 00	1,254 17	767 75	2,021 92
S-211.	Salaries, Real Estate	1,650 00	962 50	493 74	1,456 24
S-212.	Salaries, Laboratories	6,575 00	3,835 42	2,853 23	6,688 65
S-213.	Wages, Laboratories	1,825 00	1,070 00	531 25	1,601 25
	Administration.				
S-215.	Salaries, Borough Engineer.	10,500 00	6,125 00	4,374 95	10,499 95
S-216.	Salaries, Water Registrar.	173,690 00	101,319 17	60,636 27	161,955 44
S-269.	Salaries, Temporary Employees, Water Registrar	1,350 00	1,059 68	290 32	1,350 00
S-217.	Wages, Regular Employees, Water Registrar	10,709 00	5,221 50	3,833 43	9,054 93

Code No.	Title of Accounts.	Annual Payroll Cost of Existing Schedules as Prorated 1911.	Estimated Payrolls June 1, to December 31, on Schedule Basis 1911.	Actual Payroll Expenditures January 1, to May 31, 1911.	Total Estimated Requirements on Schedule Basis 1911.
S-270.	Wages, Temporary Employees, Water Registrar..	295 00	282 50	12 50	295 00
	Operation.				
S-227.	Salaries, Pumping Stations.	85,190 00	49,694 17	27,710 61	77,404 78
S-228.	Wages, Regular Employees, Pumping Stations	462,450 00	271,134 00	197,487 51	468,621 51
	Maintenance, Pumping Stations and Buildings.				
S-235.	Wages, Regular Employees, Pumping Stations	55,669 00	32,527 50	21,050 92	53,578 42
S-271.	Wages, Temporary Employees, Pumping Stations.	1,795 00	1,606 76	188 24	1,795 00
S-236.	Wages, Regular Employees, Buildings	56,565 20	33,138 95	22,218 00	55,356 95
S-272.	Wages, Temporary Employees, Buildings	1,613 50	1,509 07	104 43	1,613 50
	Maintenance, Watershed, etc.				
S-244.	Salaries	10,075 00	5,875 42	4,685 40	10,560 82
S-245.	Wages, Regular Employees..	100,941 50	59,157 50	37,221 80	96,379 30
S-273.	Wages, Temporary Employees	1,990 00	1,830 00	160 00	1,990 00
	Maintenance, Distribution System.				
S-256.	Salaries	20,963 50	12,228 67	11,097 25	23,325 92
S-257.	Wages, Regular Employees..	240,732 57	141,064 67	89,165 50	230,230 17
S-274.	Wages, Temporary Employees	14,172 13	11,314 28	2,857 85	14,172 13
	Investigation of Water Waste.				
S-275.	Salaries	16,450 00	9,595 84	4,579 22	14,175 06
S-276.	Wages, Regular Employees..	18,697 75	10,089 00	4,621 86	14,710 86
S-277.	Wages, Temporary Employees	670 00	625 84	44 16	670 00
		$1,307,168 15	$768,616 86	$500,924 97	$1,269,541 83

For 1911 there is a considerable increase in the wages paid to certain classes of Mechanics, in some instances amounting to $2 a day for each employee. The Enginemen in charge of pumping stations have been increased from $4.50 a day to $1,750 per annum. The force of the Water Registrar has also been greatly enlarged to meet the additional requirements of improved methods of accounting.

The allowances for the several salaries and wages accounts are detailed in the following table:

STATEMENT "B."

Salaries and Wages.

Code No.	Title of Account.	Departmental Estimate, 1911.	Recommended Allowance, 1911.	Already Appropriated, 1911.	Additional Appropriations Recommended, 1911.
	General Administration.				
S-208.	Salaries, Chief Engineer	$7,422 22	$7,163 00	$3,000 00	$4,163 00

Code No.	Title of Account.	Department-at Estimate, 1911.	Recommended Allowance, 1911.	Already Appropriated, 1911.	Additional Appropriations Recommended, 1911.
S-209.	Salaries, Contracts and Statistics....	2,229 17	2,872 00	1,200 00	1,672 00
S-210.	Salaries, Petometer Investigation	2,150 00	2,022 00	1,050 00	972 00
S-211.	Salaries, Real Estate	1,675 00	1,457 00	900 00	557 00
S-212.	Salaries, Laboratories	7,711 11	6,689 00	3,750 00	2,939 00
S-213.	Wages, Laboratories	1,825 00	1,600 00	900 00	700 00
	Administration.				
S-215.	Salaries, Borough Engineer	10,162 50	10,500 00	5,250 00	5,250 00
S-216.	Salaries, Water Registrar	175,340 00	161,956 00	84,500 00	77,456 00
S-269.	Salaries, Temporary Employees, Water Registrar.	1,350 00	1,350 00	900 00	450 00
S-217.	Wages, Regular Employees, Water Registrar	8,920 50	9,000 00	4,500 00	4,500 00
S-270.	Wages, Temporary Employees, Water Registrar	235 00	150 00	100 00	50 00
	Operation.				
S-227.	Salaries, Pumping Stations	94,390 00	77,405 00	29,000 00	48,405 00
S-228.	Wages, Regular Employees, Pumping Stations......	456,792 50	486,000 00	241,000 00	227,000 00
	Maintenance, Pumping Stations and Buildings				
S-235.	Wages Regular Employees, Pumping Stations.....	55,191 00	53,500 00	28,500 00	25,000 00
S-271.	Wages, Temporary Employees, Pumping Stations.....	1,695 00	1,795 00	800 00	995 00
S-236.	Wages, Regular Employees, Buildings	48,166 80	55,300 00	26,500 00	28,800 00
S-272.	Wages, Temporary Employees, Buildings	1,331 00	1,000 00	600 00	400 00
	Maintenance, Water Sheds, etc.				
S-244.	Salaries	10,075 00	10,561 00	5,600 00	4,961 00
S-245.	Wages, Regular Employees	101,173 00	96,300 00	51,000 00	45,300 00
S-273.	Wages, Temporary Employees	1,935 00	1,200 00	1,000 00	200 00
	Maintenance, Distribution System.				
S 256.	Salaries	19,712 50	23,326 00	12,000 00	11,326 00
S-257.	Wages, Regular Employees	250,675 05	230,000 00	120,000 00	110,000 00

Code No.	Title of Account.	Departmental Estimate, 1911.	Recommended Allowance, 1911.	Already Appropriated, 1911.	Additional Appropriations Recommended, 1911.
S-274.	Wages, Temporary Employees	21,798 00	14,000 00	5,000 00	9,000 00
	Investigation of Water Waste.				
S-275.	Salaries	30,600 00	14,175 00	7,100 00	7,075 00
S-276.	Wages, Regular Employees	25,200 00	14,700 00	5,100 00	9,600 00
S-277.	Wages, Temporary Employees	700 00	500 00	200 00	300 00
		$1,338,455 35	$1,266,521 00	$639,450 00	$627,071 00

These allowances differ from the estimated requirements as follows:

The total amounts estimated for salaries have been recommended. The allowances for wages of regular employees have been slightly reduced below the estimates as a certain amount, due to lost time, will probably accrue during the remainder of the year. Certain of the estimated requirements for wages of temporary employees have also been reduced as the charges thus far made for 1911 against these accounts show that the schedule allowances are probably greater than will be required.

The total amount requested for supplies and contingent expenses in 1911 is $1,068,676.47, compared with estimated expenditures for 1910 of $954,014.69. The recommended allowances for 1911 aggregate $968,770.

No allowances have been made for general supplies or furniture and fittings for the Chief Engineer's office, as these items were in the tax levy Budget estimate. The items of Furniture and Fitting, and Maintenance of Automobiles, for Water Waste Investigations have also been omitted. The large increase in the aggregate of the several accounts for purchase of furniture and fittings is due to allowances already approved for alterations and additional equipment in the several divisions of the Bureau of Water Registrar.

Fuel.

The estimate for fuel amounts to $556,960. Of the sum, $554,800 is for 163,400 tons of coal for pumping stations. The balance is for fuel for use on the watersheds and in the maintenance of the distribution system.

The original estimate for pumping station coal was amended for 150,610 tons, at a cost of $530,110, and the requested allowance therefore has been reduced to $530,000.

The coal consumption at all pumping stations during 1908, 1909 and 1910, including coal delivered to the contractor at Jameco, was as follows:

Year.	Coal Consumed, Gross Tons.	Water Pumped, U. S. Gallons.
1908	98,223.63	102,049,203,929
1909	100,881.44	105,648,366,000
1910	118,894.00	110,998,470,000

The stations at Hook Creek and Baldwins did not begin operating until July 22, 1910, and October 28, 1910, respectively. Had these stations been in operation for the full year an additional 850 tons of coal would have been consumed, giving total requirements for 1910 of 119,744 tons.

The report of the Department for the quarter ending March 31, 1911, shows an increased consumption of coal at all stations over the corresponding quarter of 1910, amounting to two and eight-tenths per cent. On this basis the consumption of coal in 1911 would be approximately 2,364 tons per week, or 122,947 tons per annum.

Additional coal contracts are being prepared which, together with the contracts now in force, provide for the estimated requirements up to May 1, 1912, and full bunkers at all stations on that date, to allow for the necessary coal prior to deliveries under the 1912 contracts. Averaging the bunker capacity of the several stations gives a period to be provided for from January 1, 1910, of approximately 75 weeks.

Including the proposed contracts, the amount of coal available for this period will be as follows:

	Tons.
Coal delivered in 1911 on contracts certified against 1910 appropriations......	25,833
Contracts already awarded in 1911..................................	91,310
Proposed additional contracts	59,300
Total	176,443

On this basis the weekly and annual allowance for the 1911-1912 period would be approximately 2,353 tons per week, or 122,350 tons per annum, against the estimated requirements of 2,364 tons per week and 122,949 tons per annum.

The amount required to be appropriated for the purchase of coal is estimated as follows:

Contracts already certified in 1911................................	$329,300 00
Estimated cost of proposed contracts................................	200,810 00
Total..	$530,110 00

A comparison based on the cost of coal consumed in 1910 shows as follows:

Actual cost of coal consumed in 1910................................	$417,782 00
Add 2.8 per cent. for additional consumption in 1911..................	11,699 99
Total estimated cost in 1911...	$429,480 00
Approximate cost per week in 1911..................................	$8,260 00
Cost for 75 weeks, 1911-1912..	$619,500 00
Deduct cost of coal delivered in 1911 charged to 1910..................	92,209 00
Estimated charge for 1911-1912, based on 1910 prices..................	$527,291 00

As the cost of the coal thus far contracted for in 1911 shows a considerable increase over the prices paid in 1910, the amended request for $530,000 appears to be no greater than the probably needs. The full amount of this request is therefore recommended for allowance.

The total amount requested for repairs and replacements is $82,660. The allowances recommended aggregate $68,360, distributed as follows:

	Estimate.	Recommended.
Repairs at Pumping Stations	$58,300 00	$58,000 00
Repairs on Watersheds	360 00	360 00
Repairs to Distribution System	24,000 00	10,000 00
Total..	$82,660 00	$68,360 00

The original estimate for repairs at pumping stations has been revised, owing to changed conditions. The present needs are stated to be as follows:

In making up the amounts requested in the Water Revenue Budget for 1911 for Maintenance of Pumping Stations, which includes the repairs to engines, boilers, piping, buildings, etc., it was considered that the special work that would be required was the repairs to the No. 2 Worthington 20 m. g. engine, which was known to have a broken water end, and which would have to be completely taken down and rebuilt. It was assumed at that time that $10,000 would be required for this work, and that approximately $15,000 would be required for the miscellaneous work of repairs to engines, boilers and piping.

Since this estimate was made, the following conditions have arisen at Ridgewood:

The No. 2 pump was in such bad condition that it was practically impossible to run it and when run it only delivered about 6 million gallons a day as compared with a nominal capacity of 20 million gallons per day.

In March, the No. 3 Beam engine cracked its shaft and was put entirely out of commission, the repairs for this engine requiring several months.

In January, owing to the crippled condition of the Ridgewood plant, it was necessary to order the contractors for the new plant to work overtime, and to charge this overtime to repairs to the plant, as they were necessitated by the condition of the plant.

Since April it has been necessary to pay the contractors to run one of the new pumps before the completion of the same, likewise, owing to the condition of the plant, this being necessitated specially by the cracking of the shaft of the No. 3 Beam engine.

Under present conditions, the cost of repairs for engines for 1911 may be estimated as follows:

For repairs to No. 2 Worthington engine, to be done under contract......	$15,000 00
For repairs to No. 3 Beam engine..	3,000 00
For overtime work on new pump	2,500 00
For payment for running new pump prior to completion of same.........	5,500 00
General Repairs to engines, boilers, piping, etc.........................	12,000 00
Repairs to buildings	20,000 00
Total..	$58,000 00

The item of $20,000 for general repairs to buildings is to cover the repairs to approximately 30 pumping stations which have had comparatively little in the way of repairs in recent years and are in need of thorough overhauling.

Plans for additions, alterations and repairs to pumping stations, at an estimated cost of $65,000, have already been approved, $45,000 to be charged against corporate stock funds and $20,000 against the appropriation from water revenues.

In view of the existing conditions at the Ridgewood station the entire amount of the amended request has been recommended.

The item for Repairs on Watersheds is to cover minor repairs to buildings and plumbing.

The segregation of the $24,000 requested for Repairs to Distribution System, compared with the amounts charged against the 1910 appropriation, is as follows:

	Estimate, 1911.	Expenditures and Outstanding Liabilities, 1910.
Repairs to pavements..................................	$5,000 00	$4,823 26
Repairs to buildings	3,000 00	161 20
Repairs to small mains..................................	....	564 29
Setting pressure gauges..................................	....	691 00
Painting hydrants	6,000 00	....
Cleaning mains	10,000 00	59,917 00
	$24,000 00	$66,156 75

The item of $59,917 expended in 1910 covers a contract for cleaning small mains, work under which is not yet completed. The $6,000 item in the request is for painting 15,000 hydrants at 40 cents each. It does not appear necessary that all this work should be done in one year. The item for repairing pavements is supported by the 1910 cost for similar work, but the request for repairs to buildings is admitted to be more than will probably be needed. An allowance of $10,000 will probably be ample to provide for repairs and replacements during the year.

The recommended allowances for the several items of supplies and contingent expenses in 1911, together with the amounts already appropriated, and the additional appropriations recommended, are shown in detail in the following table:

Code No	Title of Account.	Departmental Estimate, 1911.	Recommended Allowance, 1911.	Already Appropriated, 1911.	Additional Appropriation Recommended, 1911.
	General Administration.				
	General Supplies, Chief Engineer	$400 00	....	....	....
	Furniture and Fittings, Chief Engineer	500 00	....	....	....
S-214.	General Supplies, Laboratories	2,000 00	$2,000 00	$1,000 00	$1,000 00
	Administration.				
S-218.	General Supplies, Borough Engineer	150 00	100 00	100 00	....

Code No.	Title of Account.	Departmental Estimate, 1911.	Recommended Allowance, 1911.	Already Appropriated, 1911.	Additional Appropriation Recommended, 1911.
S-219.	General Supplies, Water Registrar	300 00	200 00	200 00	....
S-220.	Furniture and Fittings, Borough Engineer	150 00	100 00	100 00	....
S-221.	Furniture and Fittings, Water Registrar	12,591 47	12,500 00	12,100 00	400 00
S-222.	Maintenance of Automobiles	600 00	500 00	400 00	100 00
S-223.	Telephone Service	7,500 00	7,000 00	3,500 00	3,500 00
S-224.	Taxes	45,000 00	45,000 00	7,500 00	37,500 00
S-225.	Contingencies, Borough Engineer	6,530 00	4,000 00	2,700 00	1,300 00
S-226.	Contingencies, Water Registrar	5,250 00	5,250 00	5,250 00	....
	Operation (Pumping Station).				
S-229.	General Supplies	17,000 00	15,000 00	12,000 00	3,000 00
S-230.	Furniture and Fittings	650 00	650 00	500 00	150 00
S-231.	Maintenance of Automobiles	500 00	500 00	500 00	....
S-232.	Fuel	554,800 00	530,000 00	370,000 00	160,000 00
S-233.	Special Contract Obligations	172,000 00	155,000 00	100,000 00	55,000 00
S-234.	Contingencies	1,300 00	400 00	400 00	....
	Maintenance, Pumping Stations and Buildings.				.....
S-237.	General Supplies	3,100 00	3,000 00	2,000 00	1,000 00
S-238.	Materials	28,250 00	24,000 00	18,000 00	6,000 00
S-239.	Repairs and Replacements	58,300 00	58,000 00	25,000 00	33,000 00
	Purchase of Auto Truck	2,000 00	2,000 00	....	2,000 00
	Maintenance of Auto Truck	500 00	250 00	....	250 00
S-240.	Apparatus, etc.	200 00	150 00	100 00	50 00
S-241.	Forage, etc.	1,750 00	1,750 00	1,500 00	250 00
S-242.	Hired Teams	900 00	900 00	450 00	450 00
S-243.	Contingencies	1,000 00	900 00	500 00	400 00
	Maintenance, Watersheds, etc.				
S-246.	General Supplies	5,300 00	4,000 00	4,000 00	....
S-247.	Furniture and Fittings	150 00	150 00	100 00	50 00
S-248.	Materials	6,100 00	4,000 00	3,500 00	500 00
S-249.	Repairs and Replacements	360 00	360 00	200 00	160 00
S-250.	Apparatus, etc.	1,600 00	1,200 00	1,200 00	....
S-251.	Maintenance of Automobiles	1,000 00	1,000 00	500 00	500 00
S-252.	Forage	1,960 00	1,960 00	1,500 00	460 00
S-253.	Hired Teams	9,390 00	7,000 00	4,500 00	2,500 00
S-254.	Fuel	270 00	250 00	150 00	100 00
S-255.	Contingencies	800 00	400 00	200 00	200 00
	Maintenance, Distribution System.				
S-258.	General Supplies	6,275 00	5,500 00	4,500 00	1,000 00
S-259.	Furniture and Fittings	100 00	100 00	50 00	50 00
S-260.	Materials	11,730 00	8,000 00	6,000 00	2,000 00
S-261.	Repairs and Replacements	24,000 00	10,000 00	6,000 00	4,000 00
S-262.	Apparatus	4,900 00	4,000 00	4,000 00	....
S-263.	Purchase of Horses	1,200 00	700 00	600 00	100 00
S-264.	Forage, etc.	11,400 00	9,000 00	6,000 00	3,000 00
S-265.	Hired Teams	100 00	100 00	50 00	50 00
S-266.	Fuel	1,890 00	1,200 00	1,000 00	200 00
S-267.	Contingencies	650 00	650 00	400 00	250 00
S-268.	Fire Hydrant Rentals	33,150 00	33,150 00	33,150 00	....

Code No.	Title of Account.	Departmental Estimate, 1911.	Recommended Allowance, 1911.	Already Appropriated, 1911.	Additional Appropriation Recommended, 1911.
	Investigation of Water Waste.				
S-278.	General Supplies	15,000 00	2,500 00	2,500 00	....
S-279.	Hired Teams	5,400 00	4,000 00	1,800 00	2,200 00
	Furniture and Fittings	250 00	....	....	....
	Contingencies	500 00	400 00	....	400 00
	Maintenance of Automobiles	1,500 00	....	....	....
		$1,068,671 47	$968,770 00	$645,700 00	$323,070 00

In view of the foregoing, I recommended the adoption of the attached resolution. Respectfully,
WM. A. PRENDERGAST,, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of subdivision 1 of section 242 of the Greater New York Charter, the Board of Estimate and Apportionment hereby determines that the additional sum of nine hundred and fifty thousand one hundred and forty-one dollars ($950,141) be and hereby is set aside and appropriated from the water revenues received in the Borough of Brooklyn during the year 1911, for the use of the Department of Water Supply, Gas and Electricity in the maintenance and distribution of the water supply in the Borough of Brooklyn during the year 1911; said appropriation to be apportioned as follows:

	General Administration.		
S-208.	Salaries, Office of Chief Engineer	$4,163 00	
S-209.	Salaries, Division of Contracts and Statistics	1,672 00	
S-210.	Salaries, Division of Pitometer Investigation	972 00	
S-211.	Salaries, Real Estate Division	557 00	
S-212.	Salaries, Laboratories	2,939 00	
S-213.	Wages, regular employees, Laboratories	700 00	
S-214.	General supplies, Laboratories	1,000 00	
			$12,003 00
	Administration.		
S-215.	Salaries, Office of Borough Engineer	$5,250 00	
S-216.	Salaries, Bureau of Water Registrar	77,456 00	
S-269.	Salaries, temporary employees, Bureau of Water Registrar	450 00	
S-217.	Wages, regular employees, Bureau of Water Registrar	4,500 00	
S-270.	Wages, temporary employees, Bureau of Water Registrar	50 00	
S-221.	Purchase of furniture and fittings, Bureau of Water Registrar	400 00	
S-222.	Maintenance of automobiles, including equipment, care and storage	100 00	
S-223.	Telephone service	3,500 00	
S-224.	Taxes	37,500 00	
S-225.	Contingencies, Office of Borough Engineer	1,300 00	
			130,506 00
	Operation.		
S-227.	Salaries, Pumping Stations	$48,405 00	
S-228.	Wages, regular employees, Pumping Stations	227,000 00	
S-229.	General supplies	3,000 00	
S-230.	Purchase of furniture and fittings	150 00	
S-232.	Fuel	160,000 00	
S-233.	Special contract obligations, water purchased	55,000 00	
			493,555 00
	Maintenance, Pumping Stations and Buildings.		
S-235.	Wages, regular employees, Pumping Stations	$25,000 00	

S-271.	Wages, temporary employees, Pumping Stations....	995 00	
S-236.	Wages, regular employees, Buildings..............	28,800 00	
S-272.	Wages, temporary employees, Buildings............	400 00	
S-237.	General supplies	1,000 00	
S-238.	Materials for repairs and replacements by departmental labor	6,000 00	
S-239.	Repairs and replacements by contract or open order.	33,000 00	
	Purchase of auto truck..............................	2,000 00	
	Maintenance of auto truck, including equipment, care and storage	250 00	
S-240.	Apparatus, machinery, vehicles, harness, etc., including care and storage............................	50 00	
S-241.	Forage, shoeing and boarding horses..............	250 00	
S-242.	Hired teams, horses and carts.....................	450 00	
S-243.	Contingencies	400 00	
			98,595 00

Maintenance, Watersheds, Aqueducts, Ponds and Wells.

S-244.	Salaries	$4,961 00	
S-245.	Wages, regular employees..........................	45,300 00	
S-273.	Wages, temporary employees.......................	200 00	
S-247.	Purchase of furniture and fittings..................	50 00	
S-248.	Materials for repairs and replacements by departmental labor	500 00	
S-249.	Repairs and replacements by contract or open order.	160 00	
S-251.	Maintenance of automobiles, including equipment, care and storage..............................	500 00	
S-252.	Forage, shoeing and boarding horses..............	460 00	
S-253.	Hired teams, horses and carts.....................	2,500 00	
S-254.	Fuel	100 00	
S-255.	Contingencies	200 00	
			54,931 00

Maintenance, Distribution System.

S-256.	Salaries	$11,326 00	
S-257.	Wages, regular employees..........................	110,000 00	
S-274.	Wages, temporary employees.......................	9,000 00	
S-258.	General supplies	1,000 00	
S-259.	Purchase of furniture and fittings..................	50 00	
S-260.	Materials for repairs and replacements by departmental labor	2,000 00	
S-261.	Repairs and replacements by contract or open order..	4,000 00	
S-263.	Purchase of horses	100 00	
S-264.	Forage, shoeing and boarding horses..............	3,000 00	
S-265.	Hired teams, horses and carts.....................	50 00	
S-266.	Fuel	200 00	
S-267.	Contingencies	250 00	
			140,976 00

Investigation of Water Waste.

S-275.	Salaries	$7,075 00	
S-276.	Wages, regular employees..........................	9,600 00	
S-277.	Wages, temporary employees.......................	300 00	
S-279.	Hired teams, horses and carts.....................	2,200 00	
	Contingencies	400 00	
			19,575 00
			$950,141 00

—and further, be it

Resolved, That the appropriations hereby made to the Department of Water Supply, Gas and Electricity for Salaries, for Salaries, Temporary Employees, for Wages, Regular Employees and for Wages, Temporary Employees, shall be administered by the Commissioner in accordance with itemized schedules of Salaries, Salaries, Temporary Employees, Wages, Regular Employees, and Wages, Temporary Employees, duly approved by the Board of Estimate and Apportionment.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting the issue of $12,020 special revenue bonds (subdivision 8, section 188 of the Charter) to provide for the salaries of help in the Central Office, Manhattan, the Kings County Hospital, the New York City Home for Aged and Infirm, Brooklyn and the Cumberland Street Hospital, Department of Public Charities, from July 1 to December 31, 1911, together with a report of the Comptroller, to whom, on June 29, 1911, this application was referred, recommending an issue of $11,520 for this purpose; also recommending approval of schedules for said fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of twelve thousand and twenty dollars ($12,020), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries of help in the Central Office, Manhattan, Kings County Hospital, New York City Home for the Aged and Infirm (Brooklyn Division), and the Cumberland Street Hospital from July 1 to December 31, 1911.

Adopted by the Board of Aldermen June 13, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds in the sum of $12,020, the proceeds to be used by the Department of Charities for the payment of salaries in several divisions of the department from July 1 to December 31, 1911. In connection therewith I report as follows:

The request involves provision for the following items:

Central Office, Manhattan.	
General Medical Superintendent, increase from $5,000 to $6,000 per annum	$500 00
Kings County Hospital.	
Trained Nurses, 7, increased from $600 to $750 per annum	525 00
Additional Trained Nurses, 10, at $600 per annum	3,000 00
Male Hospital Helpers, 20, at $300 per annum	3,000 00
Female Hospital Helpers, 20, at $240 per annum	2,400 00
Home for Aged and Infirm, Brooklyn.	
Trained Nurse, 1, increased from $600 to $750 per annum	75 00
Male Hospital Helpers, 6, at $300 per annum	900 00
Female Hospital Helpers, 6, at $240 per annum	720 00
Cumberland Street Hospital, Brooklyn.	
Deputy Medical Superintendent, 1, at $1,800 per annum	900 00
	$12,020 00

The grade of General Medical Superintendent at $6,000 per annum has been recommended by the Board of Estimate and Apportionment for establishment, pursuant to the provisions of section 56 of the Greater New York Charter, but the grade has not been fixed by the Board of Aldermen. No action, therefore, can be taken at this time upon this item in the request.

The salary increases are for the following Nurses:

Miss Annie Collimore, in charge of the Tuberculosis Division, Kings County Hospital. Appointed as Pupil Nurse on January 15, 1905, at $120 per annum, and promoted November 15, 1907, to Trained Nurse at $600.

Miss Katherine S. Read, Acting Assistant to the Superintendent of the Training School, Kings County Hospital. Appointed as Pupil Nurse on July 17, 1903, at $120 per annum, and promoted to Trained Nurse on February 1, 1908, at $600.

Miss Lillie O'Sullivan, in charge of the Training of Probationers, and assistant in the Women's Surgical Division, Kings County Hospital. Appointed as Pupil Nurse on July 1, 1905, at $120 per annum, and promoted to Trained Nurse on April 1, 1908, at $600.

Miss Susan E. James, in charge of the Male Medical Division, Kings County Hospital. Appointed as Pupil Nurse on November 1, 1905, at $120 per annum, and promoted on September 1, 1908, to Trained Nurse, at $600.

Miss Maude J. Kean, in charge of the Operating Room, Kings County Hospital. Appointed as Trained Nurse on October 16, 1909, at $600 per annum.

Miss Annie Black, in charge of the Maternity Service, Kings County Hospital. Appointed Pupil Nurse on November 1, 1905, at $120 per annum, and promoted on August 1, 1908, to Trained Nurse, at $600.

Miss Helfrid Olsson, in charge of the Male Surgical Division, Kings County Hospital. Appointed as Pupil Nurse on May 15, 1906, at $120 per annum, and promoted to Trained Nurse on November 5, 1908, at $600.

Miss Martha E. Allen, in charge of the Women's Hospital and Female Neurological Hospital. Appointed as Trained Nurse on March 16, 1908, at the Home for Aged, Brooklyn, at $600 per annum.

The Commissioner states that the salary increases proposed are merited by length of service and the efficiency of the incumbents.

It is stated that the present force of Nurses and Hospital Helpers at the Kings County Hospital and the Home for Aged and Infirm is inadequate for the proper care and supervision of the inmates of the institutions.

It is proposed to transfer the Superintendent of the Cumberland Street Hospital to the Kings County Hospital, without change in compensation. A Deputy Medical Superintendent, at $1,800 per annum, is to be placed in charge of the Cumberland Street Hospital.

The attached resolutions, if adopted, will grant the request to the extent of $11,520, and approve a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, the resolution adopted by the Board of Aldermen on June 13, 1911, requesting an issue of special revenue bonds in the sum of twelve thousand and twenty dollars ($12,020), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries of help in the Central Office, Manhattan, Kings County Hospital, New York City Home for the Aged and Infirm (Brooklyn Division), and the Cumberland Street Hospital from July 1 to December 31, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of eleven thousand five hundred and twenty dollars ($11,520), and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding eleven thousand five hundred and twenty dollars ($11,520), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, the Board of Estimate and Apportionment hereby approves of the schedules for the Department of Public Charities for the year 1911, as follows:

Department of Public Charities.

Institutions, Brooklyn and Queens, Kings County Hospital—
Wages, Regular Employees, Special Revenue Bond Force:
Trained Nurses, 10 at $600 per annum.
Wages, Temporary Employees, Special Revenue Bond Force:
Hospital Helpers, at $300 per annum (120 months).
Hospital Helpers, at $240 per annum (120 months).
Salary Increases, Regular Employees, to be paid from Special Revenue Bonds:
Trained Nurses, 7 from $600 to $750.................................... 1,050 00
Home for Aged and Infirm—
Wages, Temporary Employees, Special Revenue Bond Force:
Hospital Helpers, at $300 per annum (36 months).
Hospital Helpers, at $240 per annum (36 months).
Salary Increase, Regular Employees, to be paid from Special Revenue Bonds:
Trained Nurse, 1 from $600 to $750.................................... 150 00

Cumberland Street Hospital—
Salaries, Special Revenue Bond Force:
Deputy Medical Superintendent, at $1,800 per annum.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($40,000) for installing electric equipment in Washington Irving High School, Manhattan, under the jurisdiction of the Department of Education.

Board of Education, Park Avenue and 59th Street, New York, June 28, 1911.

Hon. W. A. Prendergast, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of June 27, 1911, reading as follows:

"I am forwarding herewith a preliminary set of plans and specifications for installing electric equipment in Washington Irving High School, Borough of Manhattan, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment, in accordance with the resolution adopted by that Board on January 5, 1911.

"The approved set of plans and specifications from the Department of Water Supply, Gas and Electricity will be substituted for the above on Thursday, June 29, 1911.

"Approximate cost, $40,000."

The plans and specifications referred to in the foregoing communication are transmitted herewith.

Respectfully yours, A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Board of Education requested approval of plans, specifications and estimated cost of $40,000, for installing electric equipment in Washington Irving High School, Borough of Manhattan.

An examination of the plans and specifications shows that they include the furnishing and installation of all wiring for electric light and power, lighting fixtures, electric bells and gongs, electric program clock and telephones and fire alarms.

The plans and specifications are complete and satisfactory, and have been approved by the Department of Water Supply, Gas and Electricity. The estimate of cost is reasonable.

The cost of the work is to be charged to the corporate stock fund entitled, "C-DE-84, Erection of Washington Irving High School, Manhattan." The appropriation was approved by the Board of Estimate and Apportionment on March 11, 1910. There is a sufficient balance in the fund for the proposed work.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the plans, specifications and estimate of cost, forty thousand dollars ($40,000), for installing electric equipment in Washington Irving High School, Borough of Manhattan, under the jurisdiction of the Department of Education.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the specifications for furnishing and delivering new pianos to various schools in the Boroughs of Manhattan, The Bronx, Brooklyn and Queens, Department of Education, at the following estimates of cost:

Item No. 1—Nineteen new upright pianos, $5,035.
Item No. 2—Four new miniature grand pianos, $1,940.
Item No. 3—Eleven new concert grand pianos, $7,300.

Board of Education, Park Avenue and 59th Street, New York, June 6, 1911.

Hon. W. A. PRENDERGAST, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of June 6, 1911, reading as follows:

"I am forwarding herewith the specifications for furnishing and delivering new pianos to various schools in the Boroughs of Manhattan, The Bronx, Brooklyn and Queens, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment in compliance with the resolution adopted by that Board on January 5, 1911.

"Approximate cost—Item 1, $5,035; Item 2, $1,940; Item 3, $7,300."

The specifications referred to in the foregoing communication are transmitted herewith. Respectfully yours, A. E. PALMER, Secretary, Board of Trustees.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 6, 1911, the Board of Education requested the approval of specifications and estimates of cost, Item 1, $5,035; Item 2, $1,940, and Item 3, $7,300, for furnishing and delivering new pianos to various public schools in the Boroughs of Manhattan, The Bronx, Brooklyn and Queens.

The specifications provide for the furnishing and delivering of (Item 1) nineteen new upright pianos, (Item 2) four new miniature grand pianos, and (Item 3) eleven new concert grand pianos to various public schools that are nearing completion or have been completed within the last few years .

The specifications are the same as those used by the Board of Education in 1909 when the last lot of pianos was purchased.

The practice of the Board of Education in purchasing pianos is to make awards to several bidders, after obtaining the approval of the Board of Estimate and Apportionment, and not to award the lot to the lowest bidder. As a result many bids are received, giving a large variety of makes of pianos.

As a protection to the City that the bids are comparable with wholesale prices, a clause in the contract requires each bidder to submit with his bid a statement in the form of an affidavit, executed before a notary public and certified to by a certified public accountant, showing the average prices obtained by the bidder in the wholesale trade, exclusive of sales to his own retail stores, for instruments of like grade, size and quality.

The above statement is to be compiled from wholesale sales during the three months next prior to the date of the bid.

In addition, it has been the practice of the Department of Finance to employ an expert to inspect the pianos offered by the bidders and report on the quality and value of each make of piano offered, prior to the approval of the awards by the Board of Estimate and Apportionment..

The estimates of cost submitted, as compared with the prices paid for similar pianos, are reasonable.

The cost of these pianos is to be charged against the corporate stock funds entitled Sundry Pianos for Use in Schools, C-DE-83A, Manhattan; C-DE-83B, The Bronx; C-DE-83C, Brooklyn, and C-DE-83D, Queens. There are sufficient available balances in the funds for the proposed expenditure.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the specifications for furnishing and delivering new pianos to various schools in the Boroughs of Manhattan, The Bronx, Brooklyn and Queens, and estimates of cost as follows:

Item 1. Nineteen new upright pianos, five thousand and thirty-five dollars ($5,035).

Item 2. Four new miniature grand pianos, one thousand nine hundred and forty dollars ($1,940).

Item 3. Eleven new concert grand pianos, seven thousand three hundred dollars ($7,300.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Borough of The Bronx, requesting, and report of the Comptroller recommending, approval of the plans, specifications and estimate of cost ($6,000) for completing the grading and for laying asphalt block pavement on the unpaved portions of the roadway on the southerly side of the Bronx and Pelham parkway, from White Plains road to the bridge over the tracks of the New York, New Haven and Hartford Railroad Company, Borough of The Bronx, provided there be included in the contract and specifications a provision for the retention of a cash fund, etc. This work to be done under the jurisdiction of said Department:

Department of Parks, Borough of The Bronx, Office of Chief Engineer, Zbrowski Mansion, Claremont Park, June 21, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller,* 280 Broadway, New York City:

Sir—Pursuant to resolution adopted by the Board of Estimate and Apportionment June 3, 1910, I submit herewith by order of the Commissioner of Parks for the Borough of The Bronx, plans and specifications:

"For furnishing all the labor and materials for completing the grading and for laying asphalt block pavement on the unpaved portions of the roadway on the southerly side of the Bronx and Pelham parkway, from White Plains road to the bridge over the tracks of the New York, New Haven and Hartford Railroad, Borough of The Bronx."

You will notice that in these specifications I have not arranged to withhold any portion of the final payment, but have required a bond of twenty per cent. of the whole contract. The reason for this is that a portion of this roadway heretofore paved did not require anything except the bond, and we have reason to believe the same parties will have this work and there will be no necessity for withholding any of the final payment.

This work is but a very small part of the entire road, which was paved two years ago, but which we were unable to complete owing to the fact that the New York, Westchester and Boston Railroad was being put through a portion of it, which work has just been completed. Yours truly,

MARTIN SCHENCK, Chief Engineer of Parks, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 21, 1911, the Chief Engineer of the Department of Parks, Borough of The Bronx, by order of the Commissioner of Parks for the Borough, requested approval of plans, specifications and estimated cost of $6,000 for completing the grading and for laying asphalt block pavement on the unpaved portions of the roadway on the southerly side of the Bronx and Pelham parkway, from White Plains road to the bridge over the tracks of the New York, New Haven and Hartford Railroad Company, Borough of The Bronx.

The Bronx and Pelham parkway has a width of 400 feet and when completed will have three roadways, the main one in the centre and service roads on either side. The roadway on the southerly side, with the exception of two short stretches, where the construction of the New York, Westchester and Boston Railway intervened, was paved with asphalt block pavement during 1910. The present contract is for the paving of these two stretches to make the new asphalt block pavement continuous from White Plains road to the tracks of the New York, New Haven and Hartford Railroad Company.

The contract provides that the contractor shall keep the pavement in good condition for a period of five years and that he shall furnish a guaranty bond of 20 per cent. of the contract price for the faithful performance of the repair obligation.

It does not, however, provide for the retention of any cash fund against which the Commissioner can draw in the event of failure on the part of the contractor to fulfill the repair condition. In my opinion such a fund should be available.

I recommend, therefore, that the contract and specifications be amended to provide that 5 per cent. of the cost of the work be retained for this purpose for a period of five years from the date of the completion of the work.

Otherwise the plans and specifications are satisfactory. The estimate of cost is reasonable.

The resolution hereto attached, if adopted, will carry the foregoing recommendation into effect. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves of the plans, specifications and estimate of cost, six thousand dollars ($6,000), for furnishing all the labor and material for completing the grading and for laying asphalt block pavement on the unpaved portions of the roadway on the southerly side of the Bronx and Pelham parkway, from White Plains road to the bridge over the tracks of the New York, New Haven and Hartford Railroad Company, Borough of The Bronx, under the jurisdiction of the Department of Parks, Borough of The Bronx, provided that there be included in the contract and specifications a provision that five (5) per cent. of the moneys accruing to the contractor under the contract shall be retained and withheld for five (5) years from the date of the completion of the work, the Commissioner to have the right, should the contractor fail to make the necessary repairs, to purchase materials or employ men to make the said repairs and to charge the cost thereof against any sum of money withheld by the City as provided above.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Public Charities requesting, and report of the Comptroller, recommending approval, pursuant to resolution adopted June 3, 1910, of the plans and specifications, as amended, for the erection and equipment of a new laundry building at the City Hospital, Blackwells Island, Department of Public Charities, at an estimated cost of $100,000:

Department of Public Charities of The City of New York, Foot of East 26th Street, June 21, 1911.

Hon. William A. Prendergast, *Comptroller,* 280 Broadway, New York City:

Sir—In accordance with a resolution adopted by the Board of Estimate and Apportionment on January 5, 1911, directing that all City departments, authorized by the Board of Estimate and Apportionment to incur obligations and execute contracts payable out of corporate stock authorized to be issued in the Corporate Stock Budget, adopted June 3, 1910, submit to the Comptroller of The City of New York, for report to the Board of Estimate and Apportionment, all plans, specifications and estimates of cost prior to advertising for bids upon public works, payable out of such coroprate stock, I beg to submit for your consideration the plans and specifications for the following:

All the labor and material required for the erection and equipment of a new laundry building at the City Hospital, Blackwells Island.

This expenditure is chargeable to the Department of Public Charities Building Fund, C-CH-32A, and estimated cost is $100,000.

Trusting that you will take prompt and favorable action on this request, I am,

Respectfully yours, M. J. DRUMMOND, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 21, 1911, the Commissioner of Public Charities requested approval of plans, specifications and estimated cost of $100,000, for furnishing all the labor and material required for the erection and equipment of a new laundry building at the City Hospital, Blackwells Island.

The building is to be about 65 feet long by 59 feet wide, and of three stories and basement. The plans and specifications provide for the erection of a building to match in appearance the kitchen building adjoining. The necessary equipment for laundry purposes is also provided for.

The plans and specifications as submitted were incomplete in several respects, but have been corrected and completed. As amended they appear to be satisfactory. The estimate of cost also appears to be reasonable.

The cost is to be charged to the corporate stock fund C-CH-32A, for the erection and equipment of a new laundry building, City Hospital, Blackwells Island. The appropriation was approved by the Board of Estimate and Apportionment on June 3, 1910.

The total appropriation of $100,000 is available.

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans and specifications (as amended) and the estimate of cost, one hundred thousand dollars ($100,000), for furnishing all the labor and material required for the erection and equipment of a new laundry building at the City Hospital, Blackwells Island, under the jurisdiction of the Department of Public Charities.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmonod—16.

The Secretary presented the following communication from the Board of Trustees of the Bellevue and Allied Hospitals, requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plan for tree guards and gratings to be placed around twenty-five trees in front of Pavilions A and B and the Pathological building of new Bellevue Hospital, and that said Board of Trustees be authorized to accept the bid of the Hudson River Iron Works of New York to furnish and set said tree guards and gratings, painted one coat before and after erection, for the sum of $725:

Bellevue and Allied Hospitals, Office of the Board of Trustees, 1st Avenue and 26th Street, New York, June 22, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller, Department of Finance,* 280 Broadway, New York City:

Sir—Enclosed are copies of three estimates received for the construction of tree guards and gratings for twenty-five trees which have been planted in front of Pavilions A and B and the Pathological building of the new Bellevue Hospital. Will you kindly grant authority for the acceptance of the lowest bid. A plan of the guards and gratings is also enclosed. Respectfully,

J. K. PAULDING, Secretary, Board of Trustees.

McKim, Mead & White, 160 5th Avenue, New York, June 20, 1911.

Mr. J. K. PAULDING, *Secretary, Board of Trustees,* Bellevue and Allied Hospitals:

Dear Sir—We send enclosed copies of three separate estimates which we have received for the tree guards and gratings for twenty-five trees in front of Pavilions A and B and Pathological Department, which are based on our three-quarter-inch detail of the same, which we have already sent you. These three estimates are on the basis of finishing the work within two weeks after having received the order therefor. Yours very truly, McKIM, MEAD & WHITE.

John Pirkl Iron Works, 240-246 North 10th Street, 274-284 Union Avenue, Brooklyn, N. Y., June 16, 1911.

Messrs. McKIM, MEAD & WHITE, 160 5th Avenue, New York, N. Y.:

Gentlemen—We will furnish and set at Bellevue Hospital twenty-five (25) tree guards for the sum of two hundred and eighty-five dollars ($285), twenty-five (25) gratings for the sum of four hundred and fifty dollars ($450).

All to be made according to your drawing and to have one coat of paint.

We can do this work within two weeks' time.

Hoping to be favored with your order, we remain, Yours respectfully,

JOHN PIRKL IRON WORKS, G. LEONHARD SCHNEPF, Treasurer.

Hudson River Iron Works, 367 and 369 West 11th Street, New York, June 20, 1911, Re Bellevue Hospital.

Messrs. McKim, Mead & White, *Architects,* 160 5th Avenue, N. Y. City:

Gentlemen—My estimate to furnish and set twenty-five tree guards and gratings, painted one coat before and one coat after erection, as per your three-quarter-inch scale detail drawing, at the above building, amounts to seven hundred and twenty-five dollars ($725).

If the gratings are omitted deduct three hundred and twenty-five dollars ($325) from the above estimate. Yours very truly, CHAS. H. FOX.

Lieberman & Sanford Company, 627 West 57th Street, New York, June 15, 1911, Re Bellevue Hospital.

Messrs. McKim, Mead & White, *Architects,* 160 5th Avenue, New York City:

Dear Sirs—We will be pleased to furnish and set complete for you the following ornamental iron work, painted two (2) shop coats, all as per your three-quarter-inch scale detail.

Twenty-five (25) tree guards for the sum of four hundred and fifty ($450) dollars.

Twenty-five (25) gratings for the sum of six hundred and twenty-five ($625) dollars.

We would agree to complete this work in two (2) weeks and hope that you will be able to give us the order.

We thank you for the inquiry and should be pleased to submit you estimates whenever you are in the market for ornamental iron work. Thanking you, we remain,

Yours very truly,

LIEBERMAN & SANFORD COMPANY, M. Kidd, Vice-President.

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 22, 1911, the Secretary of the Board of Trustees, Bellevue and Allied Hospitals transmitted for approval a plan or drawing for tree guards and gratings to be placed around twenty-five trees in front of Pavilions A and B and the Pathological Building of the new Bellevue Hospital; together with copies of three estimates therefor, and requested that authority be granted for acceptance of the lowest bid.

Fifteen of the trees have been planted on the sidewalk in front of the Pathological Building, at the southeast corner of 29th street and 1st avenue, and ten on the north sidewalk near the foot of East 26th street.

If the trees are to be preserved, the guards should be placed around them at once.

Semicircular spaces have been left in the new cement sidewalks in which the trees have been set out. These ground spaces are to be covered with iron gratings which are designed to prevent children from digging up and playing in the soil around the roots of the trees.

The lowest bid of $725, made by the Hudson River Iron Works, 367 and 369 West 11th street, New York, for furnishing, setting and painting the twenty-five tree guards and gratings, is considered reasonable.

The request for authority to accept this bid in my opinion may properly be granted.

The cost of the work will be chargeable to a corporate stock fund of $9,000 entitled "C-BH-15," Laying Out and Planting Trees at Bellevue Hospital, etc." The appropriation was approved by the Board of Estimate and Apportionment on June 3, 1910.

I recommend the adoption of the resolution hereto attached.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves of the plans and authorizes the Board of Trustees of Bellevue and Allied Hospitals to accept the bid of the Hudson River Iron Works, of 367 and 369 West 11th street, New York, to furnish and set twenty-five tree guards and gratings, painted one coat before and one coat after erection, as per detail drawing approved, for the sum of seven hundred and twenty-five dollars ($725.)

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Alder-

men and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller, recommending that the resolution adopted by the Board on May 11, 1911, authorizing the purchase for $4,000 of property on the northerly side of Halsey street, distant easterly 175 feet from the northerly side of Yates (now Sumner) avenue and Halsey street, Brooklyn, for the use of the Fire Department, be rescinded, for the reason that the owner cannot give good title to the property because of certain restrictions, and further recommending that the Board authorize the purchase of property on the northerly side of Marion street, 125 feet westerly from the corner formed by the intersection of the northerly side of Marion street with the westerly side of Reid avenue, for the sum of $2,900, as a substitute site:

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—At a meeting held May 11, 1911, your Board authorized the purchase, at private sale, at a price not exceeding $4,000, of a piece of property for use of the Fire Departmnt, situated on the northerly side of Halsey street, distant easterly 175 feet from the northerly side of Yates (now Sumner) avenue and Halsey street, in the Borough of Brooklyn.

A search of these premises by the Lawyers' Title Insurance and Trust Company develops the fact that the owner cannot give a good title to the premises because of certain restrictions which the Acting Corporation Counsel decides "constitutes a very substantial objection to the title," and is unable to certify that the title is good and marketable. It is therefore necessary to select another site for use of the Fire Department.

There is available on the northerly side of Marion street, Borough of Brooklyn, a plot of ground 25 feet in width by 100 feet in depth, which, after negotiation by the Comptroller, may be purchased for the sum of $2,900, which I deem reasonable and just.

The Fire Commissioner has approved of the selection of this substitute site.

I therefore recommend that the resolution adopted by your Board under date of May 11, 1911, be rescinded, and further recommend, the price being reasonable and just, that your Board approve of the request of the Fire Commissioner and authorize the Comptroller to enter into contract for the acquisition, at private sale, at a price not exceeding $2,900, of the following described property:

All that certain lot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

Beginning at a point on the northerly side of Marion street distant 125 feet westerly from the corner formed by the intersection of the northerly side of Marion street with the westerly side of Reid avenue; running thence northerly parallel with Reid avenue 100 feet; thence westerly parallel with Marion street 25 feet; thence southerly and again parallel with Reid avenue 100 feet to the northerly side of Marion street; thence easterly along the northerly side of Marion street 25 feet to the point or place of beginning; together with all the right, title and interest, if any, of the party of the first part, of, in and to the street in front thereof to the centre thereof.

Said contract to be submitted to the Corporation Counsel for his approval as to form. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment May 11, 1911, which reads as follows:

> "Resolved, That the Board of Estimate and Apportionment hereby approves of the action of the Commissioner of the Fire Department in the selection of the following described property in the Borough of Brooklyn, for the use of said Department:
>
> "All that certain lot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:
>
> "Beginning at a point on the northerly side of Halsey street, distant easterly 175 feet from the northeasterly corner of Yates avenue (now Sumner avenue) and Halsey street, and running thence northerly parallel with Yates avenue (now Sumner avenue) 92 feet 6 inches, more or less, to land late of Rem Lefferts; thence easterly along the said last mentioned land 25 feet 1¼ inches, more or

less; thence southerly and again parallel with Yates avenue (now Sumner avenue) 94 feet 10 inches, more or less, to the northerly side of Halsey street, and running thence westerly along the northerly side of Halsey street 25 feet to the point or place of beginning; together with all the right, title and interest of the party of the first part, of, in and to the street in front thereof to the centre thereof.

—and the Comptroller be and is hereby authorized to enter into a contract for the acquisition of the above described property at private sale, at a price not exceeding four thousand dollars ($4,000), said contract to be approved by the Corporation Counsel as to form."

—be and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the selection by the Fire Commissioner of property situated on Marion street and Reid avenue, Borough of Brooklyn, for the use of the Fire Department, bounded and described as follows:

"All that certain lot, piece or parcel of land situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

"Beginning at a point on the northerly side of Marion street, distant 125 feet westerly from the corner formed by the intersection of the northerly side of Marion street with the westerly side of Reid avenue; running thence northerly parallel with Reid avenue 100 feet; thence westerly parallel with Marion street 25 feet; thence southerly and again parallel with Reid avenue 100 feet to the northerly side of Marion street; thence easterly along the northerly side of Marion street 25 feet to the point or place of beginning; together with all the right, title and interest, if any, of the party of the first part, of, in and to the street in front thereof to the centre thereof;"

—and authorizes the Comptroller to enter into a contract for the acquisition of said property at private sale, at a price not exceeding two thousand nine hundred dollars ($2,900), said contract to be approved by the Corporation Counsel as to form.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller recommending that the resolution adopted June 3, 1910, which authorized the issue of $53,000 corporate stock for the acquisition of a site adjoining Richardson street, north side, 68 feet west of Meeker avenue, Brooklyn, and for the erection of a new building thereon for the use of the Fire Department, be amended by substituting a site on the northerly side of Richardson street, 100 feet west of Leonard street, Brooklyn, and further recommending that the Board authorize the acquisition of said site at private sale for the sum of $5,500:

City of New York, Department of Finance, Comptroller's Office, July 10, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—In consideration of the Corporate Stock Budget for 1910, your Board approved of a resolution authorizing $53,000 for the acquisition of a site and the construction of buildings for the Fire Department, on Richardson street, 68 feet west of Meeker avenue, Borough of Brooklyn, adjoining a plot at the present time owned by the City and assigned for use of the Fire Department.

Efforts have been made to acquire the property, with the result that a satisfactory price cannot be reached between the owners and the City. The lowest price at which the parcel of land can be acquired is $15,000, which price I do not consider reasonable.

Conferences have been held with the Commissioner of the Fire Department with reference to the acquisition of a substitute site equally as desirable for the purposes of the Fire Department. After negotiation, a plot 50 feet by 100 feet on the northerly side of Richardson street, 100 feet west of Leonard street, Borough of Brooklyn, may be acquired for the sum of $5,500, which price I deem reasonable and just.

The Fire Commissioner has approved of this substitute site in place of the one originally suggested.

I, therefore, recommend the acquisition of the premises above referred to and transmit herewith two resolutions—one providing for the amendment of the resotion adopted June 3, 1910, and concurred in by the Board of Aldermen on June 28, 1910; and the second, providing for the acquisition of the above-named property at private sale at a price not exceeding $5,500. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the following resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and concurred in by the Board of Aldermen on June 28, 1910, as follows:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of the City of New York, to an amount not exceeding fifty-three thousand dollars ($53,000), for the purpose of providing means for the acquisition of a site *adjoining Richardson street, north side, 68 feet west of Meeker avenue, Brooklyn, for the erection of a new building on same, and on the north side of Richardson streeet, 68 feet west of Meeker avenue, for use of the Fire Department of the City of New York, for quarters for hook and ladder company, water tower, chemical engine and Deputy Chief,* and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding fifty-three thousand dollars ($53,000), the proceeds whereof to be applied to the purposes aforesaid,"

—be amended, subject to the concurrence of the Board of Aldermen herewith, so as to read:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding fifty-three thousand dollars ($53,000), for the purpose of providing means for the acquisition of a site and the construction of a building for use of the Fire Department, on the *northerly side of Richardson street, 100 feet west of Leonard street, Borough of Brooklyn,* and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue Corporate Stock of the City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding fifty-three thousand dollars ($53,000), the proceeds whereof to be applied to the purposes aforesaid."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the selection of the following described premises for use of the Fire Department:

All that certain lot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the Borough of Brooklyn, City of New York, bounded and described as follows:

Beginning at a point on the northerly side of Richardson street distant 100 feet westerly from the corner formed by the intersection of the westerly side of Leonard street with the northerly side of Richardson street; running thence northerly and parallel with Leonard street 100 feet; thence westerly and parallel with Richardson street 50 feet; thence southerly and again parallel with Leonard street 100 feet to the northerly side of Richardson street; thence easterly along the northerly side of Richardson street 50 feet to the point or place of beginning; together with all the right, title and interest, if any, of the owner, of, in and to the street in front thereof to the centre thereof.

—and the Comptroller be and is hereby authorized to enter into contract for the acquisition of the above-described property at private sale, at a price not exceeding $5,500, said contract to be submitted to the Corporation Counsel for his approval as to form.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented communications, as follows:

From the Commissioner of Water Supply, Gas and Electricity, requesting the Board to authorize the additional issue of $6,000 special revenue bonds (subdivision 8, section 188 of the Charter), the balance of the amount requested by the Board of Aldermen, on account of which the Board of Estimate and Apportionment authorized the issue of $12,000 special revenue bonds on May 4, 1911, the proceeds to be used by the Department of Water Supply, Gas and Electricity for the payment of wages of employees assigned to the maintenance and construction force of the Engineering Bureau, Boroughs of Manhattan and The Bronx.

(The resolution of the Board of Aldermen requested an issue of $18,000 special revenue bonds for the above purpose and the additional $6,000 is necessary to pay for extra work of Laborers not provided for in the Budget appropriations.)

From the President of the Har Moriah Hospital, requesting the Board to appropriate the sum of $15,000 to be used for the payment by The City of New York for such hospital cases as are admitted to said hospital and accepted as proper charges by the Department of Public Charities.

Which were referred to the Comptroller.

The Secretary presented a communication from certain residents of Riverdale-on-Hudson, requesting that steps be taken to remove the unhealthy conditions caused by the swampy areas in Van Cortlandt Park, The Bronx, lying along Broadway, between 238th and 242d streets and 252d and 258th streets.

Which was referred to the Department of Parks, Borough of The Bronx.

The Secretary presented the following communication from the Acting President of the Borough of Manhattan requesting, and report of the Comptroller recommending, the modification of salary schedules Nos. 1704 and 1705, supporting the appropriation made in the Budget for the year 1911, for the office of the President of the Borough of Manhattan, providing for the elimination of a Messenger at $1,350 and two Clerks, one at $1,800 and the other at $900 per annum, and for the addition of a Stenographer and Typewriter at $1,050 and four Typewriting Copyists at $720 each per annum, involving the transfer of $615:

City of New York, Office of the President of the Borough of Manhattan, City Hall, June 29, 1911.

Joseph Haag, Esq., *Secretary of Board of Estimate and Apportionment,* 277 Broadway
New York City:

Dear Sir—Request is hereby made that the supporting schedules, attached to the Budget of the President of the Borough of Manhattan for the year 1911, be amended so as to read as follows:

Bureau of Buildings, Administration—

1704. Salaries:

Superintendent	$6,000 00
Assistant Superintendent	4,000 00
Secretary to Superintendent	2,500 00
Clerk	2,100 00
Clerks, 4 at $1,800	7,200 00
Clerks, 2 at $1,650	3,300 00
Clerks, 7 at $1,500	10,500 00
Clerks, 2 at $1,350	2,700 00
Clerks, 7 at $1,200	8,400 00
Clerks, 7 at $1,050	7,350 00
Clerk	900 00
Confidential Stenographer	1,800 00
Stenographers and Typewriters, 2 at $1,500	3,000 00
Stenographers and Typewriters, 3 at $1,200	3,600 00
Stenographers and Typewriters, 2 at $1,050	2,100 00
Typewriting Copyists, 12 at $720	8,640 00
Cleaners, 5 at $400	2,000 00
Telephone Operator	900 00
Watchmen, 3 at $600	1,800 00
Automobile Engineman	1,200 00
	$79,990 00

Bureau of Buildings, Field and Inspection Force—

1705. Salaries:

Chief Inspector of Buildings	$5,000 00
Confidential Examiner	1,200 00
Messenger	1,500 00
Messenger	1,350 00
Messengers, 7 at $1,200	8,400 00
Messengers, 6 at $1,050	6,300 00
Assistant Engineer	4,000 00
Assistant Engineers, 2 at $2,550	5,100 00
Assistant Engineers, 4 at $2,400	9,600 00
Assistant Engineers, 6 at $1,800	10,800 00
Inspector	1,650 00
Inspectors of Masonry and Carpentry, 2 at $2,400	4,800 00
Inspectors of Masonry and Carpentry, 50 at $1,500	75,000 00
Inspectors of Masonry and Carpentry, 9 at $1,200	10,800 00
Inspectors of Iron and Steel Construction, 7 at $1,500	10,500 00
Inspectors of Elevators, 12 at $1,500	18,000 00
Inspectors of Elevators, 5 at $1,200	6,000 00
Inspector of Plumbing	1,800 00
Inspectors of Plumbing, 15 at $1,500	22,500 00
Inspectors of Plumbing, 3 at $1,350	4,050 00
Inspectors of Plumbing, 4 at $1,200	4,800 00
Unassigned	120 00
	$213,270 00

The changes made are as follows:

A Messenger at $1,350, a Clerk at $1,800, a Clerk at $900 are eliminated. A Stenographer and Typewriter at $1,050 and four (4) Typewriting Copyists at $720 are added. The added positions aggregate in the amount $120, which is less than the positions which have been eliminated, and which $120 is carried as an unassigned balance.

The purpose of the change is to better care for the large number of complaints which are received in the Bureau of Buildings since the Asch fire.

There is also enclosed form for the necessary transfer of funds.

Very truly yours,

E. V. FROTHINGHAM, Acting President, Borough of Manhattan.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the President of the Borough of Manhattan requested modification of the salary schedules for the Bureau of Buildings, Administration, No. 1704, and Field and Inspection Force, No. 1705, in his office for the year 1911, and involving cash transfer of $615.

It is proposed to strike out a Messenger, at $1,350 per annum, in No. 1704, and a Clerk, at $1,800, and one at $900 in No. 1705. A Stenographer and Typewriter, at $1,050, and four Typewriting Copyists, at $720 each, are to be added to No. 1704. A balance of $120 is to be scheduled in No. 1705 as unassigned.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
1704.	Clerks, 5 at $1,800	....	$1,800 00	....	$900 00
	Clerks, 2 at $900	....	900 00	....	450 00
	Stenographer and Typewriter, 1 at $1,050	$1,050 00	....	$525 00	....
	Typewriting Copyists, 8 at $720	2,880 00	....	1,440 00	....
1705.	Messengers, 2 at $1,350	1,350 00	....	675 00	....
	Unassigned	120 00	....	60 00	....
		$4,050 00	$4,050 00	$2,025 00	$2,025 00

The President states that "the purpose of the change is to better care for the large number of complaints which are received in the Bureau of Buildings since the Asch fire."

I recommend the adoption of the attached resolutions granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Manhattan, for the year 1911, as follows:

President, Borough of Manhattan.

Bureau of Buildings, Administration—

1704. Salaries:

Superintendent	$6,000 00
Assistant Superintendent	4,000 00
Secretary to Superintendent	2,500 00
Clerk	2,100 00
Clerks, 4 at $1,800	7,200 00
Clerks, 2 at $1,650	3,300 00
Clerks, 7 at $1,500	10,500 00
Clerks, 2 at $1,350	2,700 00
Clerks, 7 at $1,200	8,400 00
Clerks, 7 at $1,050	7,350 00
Clerk, 1 at $900	900 00
Confidential Stenographer	1,800 00
Stenographers and Typewriters, 2 at $1,500	3,000 00
Stenographers and Typewriters, 3 at $1,200	3,600 00
Stenographers and Typewriters, 2 at $1,050	2,100 00
Typewriting Copyists, 12 at $720	8,640 00
Cleaners, 5 at $400	2,000 00
Telephone Operator	900 00
Watchmen, 3 at $600	1,800 00
Automobile Engineman	1,200 00
	$79,990 00

Field and Inspection Force—

1705. Salaries:

Chief Inspector of Buildings	$5,000 00
Confidential Examiner	1,200 00
Messenger	1,500 00
Messenger, 1 at $1,350	1,350 00
Messengers, 7 at $1,200	8,400 00
Messengers, 6 at $1,050	6,300 00
Assistant Engineer	4,000 00
Assistant Engineers, 2 at $2,550	5,100 00
Assistant Engineers, 4 at $2,400	9,600 00
Assistant Engineers, 6 at $1,800	10,800 00
Inspector	1,650 00
Inspectors of Masonry and Carpentry, 2 at $2,400	4,800 00
Inspectors of Masonry and Carpentry, 50 at $1,500	75,000 00
Inspectors of Masonry and Carpentry, 9 at $1,200	10,800 00
Inspectors of Iron and Steel Construction, 7 at $1,500	10,500 00
Inspectors of Elevators, 12 at $1,500	18,000 00
Inspectors of Elevators, 5 at $1,200	6,000 00
Inspector of Plumbing	1,800 00
Inspectors of Plumbing, 15 at $1,500	22,500 00
Inspectors of Plumbing, 3 at $1,350	4,050 00
Inspectors of Plumbing, 4 at $1,200	4,800 00
Unassigned	120 00
	$213,270 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the office of the President of the Borough of Manhattan for the year 1911, as follows:

From

Bureau of Buildings, Field and Inspection Force—

1705. Salaries	$615 00

To

Bureau of Buildings, Administration—

1704. Salaries	$615 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment of the grade of position of Bond Clerk at $2,500 per annum, for one incumbent, in the office of the City Clerk:

In the Board of Aldermen.

Resolved, That the City Clerk be and he is hereby requested to designate from among his present staff one who shall be known as the Stock and Bond Clerk of the City Clerk's office, and who shall so act, in addition to such other duties as he may be called upon to perform.

Resolved, That the City Clerk be and he is requested to recommend to the Board of Estimate and Apportionment that the title of the position of Custodian of the City Clerk's office be changed to that of Stock and Bond Clerk, with salary at the rate of twenty-five hundred dollars ($2,500) per annum, for one incumbent, Edmund V. Greene, this title being more in keeping with the duties, in addition to others performed by the present occupant of the position.

Adopted by the Board of Aldermen May 24, 1910, a majority of all the members present voting in favor thereof. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a resolution adopted by the Board of Aldermen May 24, 1910, requesting that the title of the position of Custodian, for one incumbent, in the office of the City Clerk, be changed to that of Stock and Bond Clerk, at $2,500 per annum, we report as follows:

There are two Custodians at $2,000 per annum each in the office of the City Clerk, Edmund V. Greene, one of the Custodians, was appointed in 1898 at his present rate of compensation. He keeps the record of all new issues of stocks and bonds transmitted by the Department of Finance to the City Clerk for the latter's signature and for the affixing of the official seal. He also has to enter in the transfer book all transfers of stocks and bonds.

The City Clerk states that the title of Stock and Bond Clerk, or Bond Clerk, is more in keeping with the duties devolving upon Mr. Greene, who is stated to be an efficient, industrious and deserving subordinate. The City Clerk also states that during the greater part of a year, the number of stocks and bonds transmitted to his office averages 750 a day, six days a week. The transfer of stocks and bonds average 150 a day.

The title of Stock and Bond Clerk has heretofore been considered as applicable only to the Department of Finance. The City Clerk states that the designation of the new position as Bond Clerk in place of Stock and Bond Clerk will meet the purposes of the request.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Office of the City Clerk of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate. Per Annum.	Number of Incumbents.
Bond Clerk	$2,500 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the President of the Borough of Richmond relative to, and report of the Corporate Stock Budget Committee, recommending, approval of the schedule of salaries for the Corporate Stock Force, Bureau of Street Cleaning, Borough of Richmond, and that the resolution adopted February 23, 1911, approving of a schedule for said fund be rescinded:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 2, 1911.

Hon. WILLIAM A. PRENDERGAST, Hon. JOHN PURROY MITCHEL, Hon. GEORGE MCANENY, *Members of the Corporate Stock Budget Committee, Board of Estimate and Apportionment,* 277 Broadway, New York:

Gentlemen—We would ask that there be established, in connection with the corporate stock issue for uses of our Bureau of Street Cleaning, the grade of Transitman and Computer, at $1,650 per annum, the schedule to be so arranged that the salary of the incumbent of the position could be paid from any of the Corporate Stock Funds for which he might be doing work. Yours respectfully,

GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In connection with a request of the President of the Borough of Richmond, dated June 2, 1911, I report:

On February 23, 1911, your Board adopted a resolution establishing a schedule consisting of one employee, a Transitman and Computer, at $1,650, for the Corporate Stock Fund C-PR-3A. The present request is to permit the payment of the salary for the individual from other corporate stock accounts other than the one for which the schedule is in force.

We recommend the approval of the request in accordance with the resolution transmitted herewith and resolution rescinding present schedule. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following schedule of salaries for the corporate stock funds of the President of the Borough of Richmond: Bureau of Street Cleaning, Corporate Stock Force, Transitman and Computer, 1 at $1,650; be it further

Resolved, That the Board of Estimate and Apportionment hereby rescinds a resolution adopted February 23, 1911, in which a schedule was adopted for the Corporate Stock Account C-PR-3a, Refuse Destructors, Plans and Specifications.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Corporate Stock Budget Committee recommending that no action be taken on the request of the Woodlawn Heights Taxpayers' Association that the Board appropriate the sum of $350,000 for the construction of a viaduct at Nereid avenue, Borough of The Bronx, for the reason that the President of The Bronx is of the opinion that the matter should be considered in the Corporate Stock Budget for 1912.

Which was ordered filed and the Secretary directed to transmit a copy thereof to the Woodlawn Heights Taxpayers' Association.

(On June 1, 1911, the above matter was referred to said committee.)

The Secretary presented the following resolution from the Board of Education requesting the establishment of the grade of positions of Junior Draftsman and Draftsman's Helper at $20 per week, each, together with a report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen recommending that the said request be not approved, for the reason that the rearrangement of the salaries of the inspecting and drafting corps in the office of the Superintendent of School Buildings, to the end that they may be put on either an annual or a per diem basis, will be made in the preparation of the departmental estimate for the Budget for the year 1912:

(On June 1, 1911, the above matter was referred to said committee.)

Resolved, That the salaries of the following-named persons be, and they are hereby, fixed as indicated below, subject to action by the Board of Estimate and Apportionment and the Board of Aldermen:

Name and Position.	Present Salary Per Week.	Proposed Salary Per Week.
Arthur Cohn, Junior Draftsman	$17 50	$20 00
Maximillian Komow, Junior Draftsman	17 50	20 00
John F. Hanbury, Junior Draftsman	17 50	20 00
Solomon J. Harris, Junior Draftsman	17 50	20 00
A. B. Lieberman, Draftsman's Helper	17 50	20 00

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to recommend to the Board of Aldermen that the grade of Junior Draftsman, with salary at the rate of $20 per week, and the grade of Draftsman's Helper, with salary at the rate of $20 per week, be established for the Department of Education, in addition to the grades now existing, and to include in the resolution to be adopted by it a provision that said salaries shall be paid only upon appointments to said grades being made by the Board of Education.

A true copy of resolutions adopted by the Board of Education on May 24, 1911.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 24, 1911, the Board of Education requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grades of positions of Junior Draftsman, and of Draftsman's Helper, at $20 per week each. In connection therewith we report as follows:

At a special meeting held by the Board of Estimate and Apportionment on September 1, 1910, to clear the August payrolls which had been withheld by reason of an opinion of the Corporation Counsel that the salaries of all employees in the Department of Education, other than Teachers, must be established under the provisions of section 56 of the Charter, it was recommended that the salaries of Draftsmen be established at weekly rates, in accordance with the practice in the Bureau of Buildings since consolidation. This method was approved as a temporary expedient only, it being understood that the salaries were ultimately to be put upon either an annual or a per diem basis.

As a result of a conference between representatives of the Comptroller and the Superintendent of School Buildings, it was agreed to rearrange the salaries of the inspecting and drafting corps to the end that they may be put upon either an annual or a per diem basis, in conformity with all other City departments. This change is to be made in the preparation of the departmental estimate for 1912.

We recommend, therefore, that the requested establishment of two new grades on a weekly basis be not approved. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the request of the Board of Education, by resolution adopted May 24, 1911, for the establishment of the grades of positions of Junior Draftsman and Draftsman's Helper, with salaries at the rate of twenty dollars ($20) each per week, be and the same is hereby disapproved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Select Committee, as above, to the Board of Education.

The Secretary presented the following communications from the Department of Parks, Borough of The Bronx, requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans and specifications, as amended, and estimate of cost ($19,000), for reconstructing and surfacing with asphaltic mixture the roadway of the Bronx and Pelham parkway, from Williamsbridge road to the White Plains road, Borough of The Bronx, under the jurisdiction of said Department:

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, May 10, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment*, City Hall, New York City:

Dear Sir—In the statement recently made to your honorable Board, asking that provision be made for the issue of corporate stock for the proposed improvements in the parks and parkways of this Borough, for the present year, the sum of $20,000, it was said, could be used for the continuation of parkway improvements.

Following is an extract from the statement referred to:

"Bronx and Pelham Parkway—Continuation of parkway improvement, include side roads, bridle paths, repaving, etc., $30,000, of which $20,000 could be used in 1911.

"The sum of $750,000 was requested from the Board of Estimate and Apportionment three years ago, for the completion of the roadway and walk system of this parkway, and in the year 1909 the sum of $100,000 was appropriated for the purpose of beginning the general improvement of the parkway, including side roads for traffic purposes, bridle paths, repaving, etc. A considerable part of this has already been expended and plans have been elaborated, and work is now under way for expending the balance. It is very important that this improvement be continued to an early completion, and the amount asked for will enable us to continue this work and get, at least, the main driveway in first-class shape, including resurfacing with asphaltic material."

The $20,000 asked for is necessary for resurfacing that portion of Pelham parkway extending from White Plains road to Williamsbridge road, the only portion of said parkway now requiring an appropriation.

The balance of the parkway is either completed or under way, or otherwise provided for, and if the Park Department can get this $20,000 it can have a magnificent roadway completed before the fall of 1911.

I am particularly anxious to push this to completion, so that the parkway may be put to use, as it is very much needed, and the portion described is the only section upon which I am able to do any work, by reason of lack of funds.

In this special manner I desire to emphasize and call attention to the unusually heavy automobile traffic to which this road is subjected. I venture to say that nowhere within the limits of Greater New York, perhaps, is there a road over which a greater number of automobiles run daily, and particluarly on Sundays and holidays, as it is the outlet to all the surrounding country, and into Connecticut.

I cannot too strongly urge, and I do earnestly request, a prompt consideration for this desired issue of corporate stock. Very truly yours,

T. J. HIGGINS, Commissioner of Parks, Borough of The Bronx.

Department of Parks, Borough of The Bronx, Office of Chief Engineer, Zbrowski Mansion, Claremont Park, May 10, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller,* 280 Broadway, City:

Dear Sir—Pursuant to the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, I submit herewith, by order of the Commissioner of Parks for the Borough of The Bronx, plans and specifications for the following contract, the estimated cost of which is nineteen thousand dollars ($19,000):

"For furnishing all the labor and material for reconstructing and surfacing with Hudson River road gravel, with asphaltic binder, the roadway of the Bronx and Pelham parkway, from the Williamsbridge road to the Eastchester road, in the Borough of The Bronx, in The City of New York."

On the cross section sent herewith no old broken stone is shown, for the reason that on the major portion of the roadway to be reconstructed the old surface is worn down to the Telford foundation. Respectfully submitted,

MARTIN SCHENCK, Chief Engineer of Parks, Borough of The Bronx.

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, May 31, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller,* 280 Broadway, New York City:

Dear Sir—Pursuant to the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and by order of the Commissioner of Parks for the Borough Bronx, I submitted to you plans and specifications:

> For furnishing all the labor and material for reconstructing and surfacing with Hudson River road gravel, with asphaltic binder, the roadway of the Bronx and Pelham parkway, from the Williamsbridge road to the Eastchester road, in the Borough of The Bronx, in The City of New York,

—the estimated cost of which was nineteen thousand dollars ($19,000).

These specifications have been changed to meet certain suggestions made by your Engineers, which specifications are now returned to you, with the changes made.

Certain conditions have arisen since the date of first submission of plans and specifications, which render it important that a portion of this road, other than that originally proposed, should be reconstructed. Hence, by order of the Commissioner of Parks for the Borough of The Bronx, I have changed the title so as to read:

"Reconstructing and surfacing with Hudson River road gravel, with asphaltic binder, the roadway of the Bronx and Pelham parkway, from the Williamsbridge road to the White Plains road."

In accordance with these changes, I submit herewith sketch plan showing the changed location.

There will be no change whatever in the cross sections originally sent, nor any other changes in the specifications, except those noted, the major portion of which changes were suggested by your Engineers. Respectfully submitted,

MARTIN SCHENCK, Chief Engineer of Parks, Borough of The Bronx.

P. S.—The original plans and specifications were submitted to you on May 10 of this year.

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, June 21, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller,* 280 Broadway, New York City:

Sir—Pursuant to resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and by order of the Commissioner of Parks for the Borough of The Bronx, I submit herewith plans and specifications:

"For furnishing all the labor and material for reconstructing and surfacing with asphaltic mixture the roadway of the Bronx and Pelham parkway, from the Williamsbridge road to the White Plains road, in the Borough of The Bronx, in The City of New York."

This matter was referred to you on May 31 of this year, with specification providing for Hudson River gravel and asphaltic binder. Bids were received on the 15th of June, which indicates that the cost will be materially higher than the price which we have heretofore received for such asphaltic material as specified in specifications sent herewith.

The bids received for Hudson River gravel and asphaltic binder were rejected by the Commissioner, who directed me to have specifications made out in accordance with these sent herewith. Under these specifications we have had upwards of 40,000 square yards laid, with a five-year guarantee, and there is no question apparently but what it will prove successful. Respectfully submitted,

MARTIN SCHENCK, Chief Engineer.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 10, 1911, the Commissioner of Parks, Borough of The Bronx, requested approval of plans, specifications and estimated cost of $19,000, for the repaving of the Bronx and Pelham parkway, from the Williamsbridge road to the Eastchester road. The request was amended by the Commissioner on May 31, 1911, and again on June 21, 1911. The amended request is for the approval of plans, specifications and estimate of cost of $19,000 for reconstructing and surfacing with asphaltic mixture the roadway of the Bronx and Pelham parkway from Williamsbridge road to the White Plains road. In connection therewith I report as follows:

The roadway of the Bronx and Pelham parkway within the limits mentioned is in extremely bad condition and should be repaved. It is a main thoroughfare leading to country homes and towns in Westchester County and Connecticut, and is subject to very heavy motor traffic. It is important, therefore, that the roadway should have a smooth and durable pavement.

The proposed pavement is similar to that laid at a very reasonable cost and with excellent results during the years 1909 and 1910 on the Eastern boulevard, The Bronx.

The area to be constructed under this contract is about 22,860 square yards. The estimated cost is $19,000, or at the rate of about 83 cents per square yard.

The roadway has a width of 60 feet. In the centre a space about 40 feet in width has been paved with macadam, the sides being unpaved. It is proposed thoroughly to clean the paved portion, spike or pick it up, so that all existing depressions may be filled to the general trap rock level of the present macadam pavement. The sides are to be rolled or excavated to a depth of five inches below this surface and the space filled with gravel and rolled until a uniform surface of the entire roadway has been obtained.

Upon this surface a coating or wearing course, composed of bituminous ingredients, mixed with sand or gravel (described as asphaltic mixtures) is to be spread and rolled to a thickness, when thoroughly compacted, of not less than two inches over the entire area of the roadway. The specifications as drawn, describing the manner in which the work is to be performed are satisfactory.

Section U, as the contract was originally drawn, provided that the contractor should be paid in full upon the expiration of thirty days after the completion of the work.

At the suggestion of the Department of Finance this section and section W have been amended to provide that 5 per cent. of the cost of the work shall be retained for a period of five years and that in the event of failure on the part of the contractor to keep the roadway in a satisfactory state of repair, the Commissioner of Parks shall have the right to purchase materials or make said repairs and charge the cost against the 5 per cent. to be retained.

Section 29 is also amended to provide for a guaranty bond of 20 per cent. of the contract price for the faithful performance of the said repair condition, for a period of five years instead of one year, as originally provided.

As amended the contract and specifications are satisfactory. The estimate of cost is reasonable.

The cost of the work to be paid from the corporate stock fund approved by the Board of Estimate and Apportionment on June 3, 1910, and entitled "C-DP-334, Construction and Repairing of Drives, etc., under contract, The Bronx—For Completion of Work." There is a sufficient balance in the fund for the proposed work.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves of the plans and specifications, as amended, and estimate of cost, nineteen thousand dollars ($19,000), for furnishing all the labor and material for reconstructing and surfacing with asphaltic mixture the roadway of the Bronx and Pelham parkway, from the Williamsbridge road to the White Plains road, in the Borough of The Bronx, under the jurisdiction of the Department of Parks, Borough of The Bronx.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Alder-

men, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the report of the Corporate Stock Budget Committee, consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan, submitting for the consideration of the Board the Corporate Stock Budget for the year 1911.

The following persons appeared and urged that there be incorporated in the Corporate Stock Budget for the year 1911 appropriations as follows:

Patrick A. Whitney, Esq., Commissioner of Correction, for a Reformatory for Male Misdemeanants, on Harts Island; Jacob A. Riis, Esq., for additional playgrounds and for a seaside park; E. L. Bowker, Esq., for a central library in the Borough of Brooklyn; William I. Nichols, Esq., representing the Brooklyn League, appeared in opposition of the site proposed for the central library in Brooklyn.

The Comptroller moved that when the Board adjourns, it adjourn to meet Monday, July 17, 1911, at 10:30 o'clock, a. m., that a calendar be prepared for that day, and that the report of the Corporate Stock Budget Committee be made a special order for that day.

Which was agreed to.

The Secretary presented a resolution of the Board of Aldermen, requesting the Board to close Atlantic avenue from Vesta street to Warwick street, Borough of Brooklyn, between the hours of ten and two on July 29, 1911, for the purpose of holding athletic games, together with a report of the Chief Engineer of the Board, stating that there appears to be no provision in the ordinances or the Charter covering such a case, except the ordinance authorizing the President of the Borough to temporarily close streets and the Charter provision for parades and processions, and recommending that the matter be referred to the President of the Borough of Brooklyn, for such action as he may deem proper to give under the circumstances.

Which were referred to the President of the Borough of Brooklyn.

The following matter, not upon the Calendar for this day, was considered by unanimous consent:

The Comptroller presented the following communication from the Commissioner of the Mayor's Bureau of Weights and Measures reuesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, the establishment in said office of the position of Automobile Engineman, with salary at the rate of $1,200 per annum, for one incumbent:

Mayor's Bureau of Weights and Measures, City Hall, City of New York, June 26, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—Application is herewith made to your honorable Board for the establishment of the following position, in addition to those already existing in this Bureau:

Title.	Rate Per Annum.	Number of Incumbents.
Automobile Engineman	$1,200 00	1

Respectfully, JOHN L. WALSH, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1911, the Commissioner of Weights and Measures requested the establishment in the Bureau of Weights and Measures, office of the Mayoralty, of the position of Automobile Engineman, at the rate of $1,200 per annum, for one incumbent. In connection therewith we report, as follows:

On June 28, 1911, the Secretary of the Board of Estimate and Apportionment, pursuant to a resolution of the Board, adopted June 22, 1911, returned the request to the Commissioner, with the suggestion that it be submitted in connection with the departmental estimates for the budget for 1912.

It seems that an exception might properly be made on this request, as an appropriation of $3,000 was authorized on June 29, 1911, for the purchase of an automobile for the Commissioner, who states that he cannot make use of the automobile until the position is established.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Bureau of Weights and Measures, office of the Mayoralty, of the position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Automobile Engineman	$1,200 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

After considering certain public improvement matters, on motion of the Comptroller the Board adjourned to meet Monday, July 17, 1911, at 10.30 o'clock a. m.

JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Monday, July 17, 1911.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of an adjournment.

Present—William J. Gaynor, Mayor; William A. Prendergast, Comptroller; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Cyrus C. Miller, President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Mayor, Hon. William J. Gaynor, presided.

FRANCHISE MATTERS.

Rapid Transit Railway, Battery-East River-Atlantic Avenue Route.

In the matter of the communication dated June 30, 1911, from the Public Service Commission for the First District, transmitting resolutions adopted by said Commission as to route and general plan of construction for a proposed rapid transit railway beginning at a point under Battery Park, Borough of Manhattan, and extending under the park and ferry or waterfront property to the East River; thence under the East River to a point at or near Atlantic avenue, Borough of Brooklyn, extended with the pierhead line; thence under and along Atlantic avenue to a point in said avenue about 150 feet east of the easterly line of Court street, Borough of Brooklyn, where a connection can be made with Section 11-D of the Fourth avenue subway; and requesting the approval and consent of this Board thereto.

This communication was presented to the Board at the meeting of July 6, 1911, and by resolution duly adopted July 13, 1911, was fixed as the date for consideration and the communication was referred to the Franchise Committee.

At the meeting of July 13, 1911, the consideration was concluded and the matter was laid over until this day.

The matter was laid over until the next meeting (Tuesday, July 18, 1911).

Rapid Transit Railways—Extensions to the Existing System; also Third-tracking and Constructing Additions to the Second, Third and Ninth Avenue Elevated Railroads; and the Completion and Putting in Operation of the Steinway Tunnel.

In the matter of the communication from the Public Service Commission for the First District relative to the construction, maintenance and operation of additional rapid transit railways, and requesting a statement of the position of this Board on the subject.

The President of the Board of Aldermen served notice on the Board that unless a decision was reached in the matter on or before the next meeting of the Board, he would at that time offer for adoption a resolution providing for the award of the extended rapid transit system pursuant to the recommendations of the conference committee.

After disposing of the Public Improvements Calendar, the following Financial Matters were considered:

FINANCIAL MATTERS.

The following transfers of appropriations were made upon the recommendation of the Comptroller:

$82.89 from the General Fund for the Reduction of Taxation for the year 1906, to the appropriation made to the Armory Board for the same year, Account No. 139.

The Armory Board, Basement Suite 6, Hall of Records, New York, May 17, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—In the Reconciliation Sheets for December 31, 1909, received from the Department of Finance, the sum of one hundred and sixty-one dollars and forty-two cents ($161.42) was transferred to the General Fund from the account entitled Boroughs of Manhattan and The Bronx, Repairs and Supplies, 1906, 139, 22d Regiment.

This showed an overdraft in the account of fifty-six dollars and ninety-one cents ($56.91). There was an outstanding liability of twenty-five dollars and ninety-eight cents ($25.98), so that it will require a transfer to the credit of the account of eighty-two dollars and eighty-nine cents ($82.89) to close said account.

It is requested, therefore, that the sum of eighty-two dollars and eighty-nine cents ($82.89) be transferred from the General Fund to the account entitled, Boroughs of Manhattan and The Bronx, Repairs and Supplies, 1906, 139, 22d Regiment.

Yours respectfully, C. D. RHINEHART, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 17, 1911, the Secretary of the Armory Board requested the transfer of $82.89 from the General Fund to account No. 139, Twenty-second Regiment for the year 1906. In connection therewith I report as follows:

The requested transfer is to cover an overdraft of $56.91 and an outstanding liability of $25.98 in the account entitled Boroughs of Manhattan and The Bronx, No. 139, Twenty-second Regiment, Repairs and Supplies. The outstanding bills are for glazing work done by Samuel Pollack.

On May 28, 1908, the Board of Estimate and Apportionment transferred $161.42 from No. 139 to the General Fund. This was done in error, as the balance of the account amounted to but $104.51. The overdraft therefore was made, which, with the outstanding liability of $25.98, gives the total deficit of $82.89. As the transfer was made in error it is now proposed to reimburse the account in the amount of the deficit.

I recommend the adoption of the attached resolution recertifying the error and balancing the account. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds to the Armory Board for the year 1906, as follows:

From	
General Fund for the Reduction of Taxation	$82 89
To.	
Boroughs of Manhattan and The Bronx, Repairs and Supplies—	
139. Twenty-second Regiment	$82 89

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

$5,250 within the appropriation made to the Fire Department for the year 1911.

Fire Department of The City of New York, Office of the Commissioner, New York, June 20, 1911.

Hon. William J. Gaynor, *Mayor, and Chairman Board of Estimate and Apportionment:*

Sir—I have the honor to request that the Board of Estimate and Apportionment authorize the following transfers from appropriations for the purchase of horses, made to this Department for the current year:

This money will not be required for the purchase of horses as it is desired to use it for the maintenance of automobile apparatus:

From Account No. 979, Purchase of Horses, to Account No. 978, Maintenance of Automobiles, $3,000.

From Account No. 1005, Purchase of Horses, to Account No. 1004, Maintenance of Automobiles, $250.

From Account No. 1029, Purchase of Horses, to Account No. 1028, Maintenance of Automobiles, $2,000.

These transfers are necessary owing to the purchase of additional automobile apparatus since January 1, the present accounts for Maintenance of Automobiles being about exhausted. Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Fire Commissioner requested transfers in the sum of $5,250 within the appropriations to the Fire Department for the year 1911. In connection therewith I report as follows:

The proposed transfers are from accounts for the Purchase of Horses to accounts for the Maintenance of Automobiles, for the reason that automobile apparatus is being substituted for horse-drawn apparatus in the Department.

Since January 1, 1911, the following automobile apparatus has been placed in service: Eleven wagons for Deputy Chiefs, one water tower, four hose wagons, one engine, two delivery wagons, two wagons for Telegraph Bureau and Bureau of Repairs and Supplies. Contracts have also been awarded for three engines and four hook and ladder trucks.

The appropriations for 1911 for the maintenance of automobiles were based upon the estimated expenditure for the six automobiles in use in 1910, and are inadequate to meet the increase in cost due to the addition to the number of auto apparatus. The transfer items are as follows:

From

979. Purchase of Horses, Manhattan	$3,000 00
1005. Purchase of Horses, Richmond	250 00
1029. Purchase of Horses, Brooklyn	2,000 00

To

978. Maintenance of Automobiles, Manhattan	$3,000 00
1004. Maintenance of Automobiles, Richmond	250 00
1028. Maintenance of Automobiles, Brooklyn	2,000 00

The appropriations for Nos. 979, 1005 and 1029 were $20,000, $1,200 and $10,000, respectively, against which no liabilities have been incurred.

The appropriation for No. 978 was $3,000. The liabilities up to June 30, 1911, were $2,969.81, as follows:

Rubber tires and tubes	$984 32
Gasoline	387 93
Repairs	316 55
Auto parts and supplies	1,281 01
	$2,969 81

The appropriation for No. 1004 was $500. Liabilities incurred to June 30, 1911, amount to $499.12, as follows:

Rubber tires and tubes	$297 28
Repairs	10 30
Auto parts and supplies	191 54
	$499 12

The appropriation for No. 1028 was $2,000. The liabilities to June 30, 1911, amounted to $1,996.33, as follows:

Rubber tires and tubes	$1,080 41
Gasoline	235 80
Repairs	159 70
Auto parts and supplies	520 42
	$1,996 33

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237, of the Greater New York Charter, hereby approves transfers of funds appropriated to the Fire Department for the year 1911, as follows:

From

Administration, Borough of Manhattan—

979. Purchase of Horses	$3,000 00

Administration, Borough of Richmond—	
1005. Purchase of Horses	$250 00
Administration, Borough of Brooklyn—	
1029. Purchase of Horses	2,000 00

To

Administration, Borough of Manhattan—	
978. Maintenance of Automobiles, including Equipment, Care and Storage	$3,000 00
Administration, Borough of Richmond—	
1004. Maintenance of Automobiles, including Equipment, Care and Storage	$250 00
Administration, Borough of Brooklyn—	
1028. Maintenance of Automobiles, including Equipment, Care and Storage	$2,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

$68,269 within the appropriation made to the Department of Public Charities for the year 1911.

Department of Public Charities of The City of New York, foot of East 26th Street, New York, June 28, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—In the Budget for 1911, this Department was granted an appropriation entitled:

"808B. Additional allowance for general supplies, subject to the approval of the Board of Estimate and Apportionment as to the

On April 20, 1911, there was transferred from this account to: "793. General Supplies, Richmond," the sum of 34,200 00

—leaving a balance of $165,800 00

In order to meet actual and anticipated deficits in various supply accounts, I respectfully request your honorable Board to authorize transfers from the above mentioned balance ($165,800) to the following appropriation accounts of this Department for the year 1911, to wit:

Manhattan:	
745. General supplies	$48,269 01
747. Repairs and replacements by contract or open order	54,013 29
748. Apparatus, machinery, vehicles, etc., including care and storage	19,517 70
Brooklyn and Queens:	
777. General supplies	20,000 00
778. Materials for repairs and replacements by departmental labor	5,000 00
779. Repairs and replacements by contract or open order	13,000 00
780. Apparatus, machinery, vehicles, etc., including care and storage	2,000 00
781. Maintenance of automobiles, including equipment, care and storage	1,500 00
786. Contingencies	600 00
Richmond:	
796. Apparatus, machinery, vehicles, etc., including care and storage	1,000 00
798. Forage, shoeing and board of horses	400 00
Miscellaneous:	
804. Clothing for insane patients	500 00
Total	$165,800 00

Herewith will be found a supporting schedule showing, for each of the foregoing appropriation accounts:

1. The departmental estimate for 1911.
2. The Budget allowance for 1911.
3. The estimated requirements from June 10 to December 31, 1911.
4. The unencumbered balance on June 10, 1911.
5. The additional funds required.

Trusting that this request will meet with your early and favorable consideration, I am, yours very respectfully,

M. J. DRUMMOND, Commissioner.

Department of Public Charities of The City of New York, foot of East 26th Street, New York, June 28, 1911.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—On the 10th instant this Department made an application to your honorable Board for the transfer of $165,800 from the appropriation account for 1911 entitled, "808B, Additional Allowance for General Supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied," to sundry other supply accounts.

Included in this application was a request for a transfer of $54,013.29 from No. 808B to No. 747, Repairs and Replacements by Contract or Open Order.

Owing to the protracted period of dry weather which prevailed this spring, the price of forage has advanced materially; hence it is necessary to augment the forage appropriations for Manhattan and Brooklyn $900 and $800 respectively. For that reason I respectfully request permission to modify the application of the 10th instant, as follows:

Amend:	
747. Repairs and replacements by contract or open order, Manhattan, by striking out $54,013.29, and inserting	$52,313 29
Add:	
751. Forage, boarding and shoeing horses, Manhattan	900 00
783. Forage, boarding and shoeing horses, Brooklyn	800 00
	$54,013 29

Respectfully yours, M. J. DRUMMOND, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 10, 1911, the Commissioner of the Department of Charities requested the transfer of $165,800 within the appropriations to his Department for the year 1911. In connection therewith I report as follows:

The appropriations recommended by the Budget Committee for the purchase of general supplies for the year 1911, including meat, groceries, vegetables, drugs, clothing, etc., was $1,265,000 as follows:

Manhattan and The Bronx	$925,000 00
Richmond	40,000 00
Brooklyn and Queens	300,000 00
	$1,265,000 00

The amount was considerably less than the sum requested by the Department. To provide for any deficiency, an additional allowance of $200,000 was granted in the Budget for 1911, the account being entitled "808b, Additional Allowance for General Supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied."

On April 20, 1911, the sum of $34,200 was transferred from this account to No. 793, General Supplies, Richmond, leaving a balance of $165,800. Request is made that this balance be transferred as follows:

Manhattan and The Bronx—	
745. General Supplies	$48,269 01
747. Repairs and Replacements by Contract or Open Order	52,313 29
748. Apparatus—Machinery, Vehicles, etc., including Care and Storage.	19,517 70
751. Forage, Shoeing and Boarding Horses	900 00
Brooklyn and Queens—	
777. General Supplies	20,000 00
778. Materials for Repairs and Replacements by Departmental Labor..	5,000 00
779. Repairs and Replacements by Contract or Open Order	13,000 00
780. Apparatus—Machinery, Vehicles, etc., including Care and Storage.	2,000 00
781. Maintenance of Automobiles, including Equipment, Care and Storage	1,500 00
783. Forage, Shoeing and Boarding Horses	800 00
786. Contingencies	600 00
Richmond—	
796. Apparatus—Machinery, Vehicles, etc., including Care and Storage..	1,000 00
798. Forage, Shoeing and Boarding Horses	400 00
Miscellaneous—	
804. Clothing for Insane Patients	500 00
	$165,800 00

The appropriation of $200,000 having been made to provide for possible deficiencies in the allowances for the purchase of food supplies, and not for the general maintenance of the Department, I am of the opinion that the only items in the request that should be considered are those relating to transfers to the appropriations for General Supplies in Manhattan and The Bronx, and Brooklyn and Queens.

The appropriation for No. 745, General Supplies, Manhattan and The Bronx, was $925,000. The liability incurred to June 10, 1911, as shown by a statement submitted by the Department, was $515,269.01, as follows:

Contracts	$456,503 31
Open Market Orders	38,732 29
Informal awards	20,033 41
	$515,269 01

The unencumbered balance on June 10 was $409,730.99. The requirements, from June 10 to December 31, 1911, as estimated by the General Storekeeper, will require an expenditure of $458,000, as follows:

Food supplies	$363,066 22
Dry goods	26,097 98
State's prison goods (clothing, shoes, etc.)	39,819 10
Drugs	8,000 00
Laundry supplies	9,660 06
Miscellaneous	11,356 64
	$458,000 00

To provide for this expenditure, the balance to the credit of the account will have to be replenished in the sum of $48,269.01.

The appropriation for No. 777, General Supplies, Brooklyn and Queens, was $300,000. The liability incurred to June 10, 1911, was $159,715.73, as follows:

Contracts	$140,800 76
Open Market Orders	17,909 33
Informal awards	1,005 64
	$159,715 73

The unencumbered balance on June 10 was $140,284.27. The Deputy Commissioner in charge of the Boroughs of Brooklyn and Queens estimates that $20,000 additional will be required to meet the cost of the necessary food supplies, clothing, etc., from June 10 to December 31, 1911.

I recommend that transfers to the amount of $68,269 be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Public Charities for the year 1911, as follows:

Department of Public Charities.

From

Miscellaneous—	
808b. Additional Allowance for General Supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied	$68,269 00

To

Administration, Manhattan and The Bronx—	
745. General Supplies	$48,269 00
Administration, Brooklyn and Queens—	
777. General Supplies	20,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented communications as follows:

From the Commissioner of Correction, requesting the Board to reconsider his application for an appropriation of $800,000 for the erection of a reformatory on Blackwells Island.

From the Secretary, Commissioners of the Sinking Fund, transmitting certified copy of resolution adopted by said Commissioners on July 12, 1911, recommending an issue of $7,102,901.29 for the uses and purposes of the Department of Docks and Ferries.

From the Secretary of the Board of Education, transmitting certified copy of resolution adopted by said Board requesting an issue of $450,000 corporate stock for fire protection work in the several boroughs.

Which were referred to the Corporate Stock Budget Committee, consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, the modification of salary schedule No. 584, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the elimination of a Clerk, at $1,350 per annum and the substitution of two Clerks, one at $1,050 and one at $300 per annum, effective as of July 1, 1911:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, July 7, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller:*

Dear Sir—I wish to fill a vacancy at $1,350 in the Borough of Queens by the appointment of one Clerk at $1,050, and one at $300. To do so a modification of the present schedule is necessary.

I enclose a copy of the schedule so amended, and request that you recommend its approval by the Board of Estimate and Apportionment. Yours truly,

H. S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Commissioner of Water Supply, Gas and Electricity, on July 7, 1911, for a modification of the 1911 schedules, Distribution, Water Registration, Permits and Revenue Collection, No. 584, Salaries, Regular Employees, I report as follows:

It is proposed to drop a Clerk at $1,350 per annum, and substitute a Clerk at $1,050 and one at $300 per annum.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
584.	Clerks, 2 at $1,350............	$1,350 00	....	$675 00	....
	Clerk at $1,050...............	....	$1,050 00	....	$525 00
	Clerk at $300................	....	300 00	....	150 00
		$1,350 00	$1,350 00	$675 00	$675 00

I recommend the adoption of the attached resolution, granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Water Supply, Borough of Queens, Distribution, Water Registration, Permits and Revenue Collection—

584. Salaries, Regular Employees:

Cashier	$1,500 00
Financial Clerk	1,500 00
Clerk	1,650 00
Clerk	1,500 00
Clerk	1,350 00
Clerk	1,050 00
Clerks, 4 at $900	3,600 00
Clerk	300 00
Stenographer and Typewriter	900 00
Inspectors, 12 at $1,100	13,200 00
Foreman	900 00
	$27,450 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, approval of the revised schedules of employees of said Department, Corporate Stock and Water Revenue Force, Brooklyn, providing for a change in title of Engineman to Supervising Engineman, without change in compensation:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 30, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I wish to promote, without change of salary, an Engineman to the position of Supervising Engineman, for which position he received at a promotion examination a percentage of 93, and to do so it will be necessary to modify the salary schedule supporting the account entitled, "Maintenance and Distribution of Water Supply in the Borough of Brooklyn, 1911, Operation of Pumping Stations, Salaries, Regular Employees," a copy of which, so modified, is enclosed.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 30, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the 1911 corporate stock schedule for the maintenance and distribution of water supply in the Borough of Brooklyn, operation of pumping stations, salaries, regular employees. It is proposed to change the title of Engineman to Supervising Engineman, without change in compensation. The new title has been approved by the Municipal Civil Service Commission.

The following schedule shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
	Operation Pumping Stations—				
	Enginemen, two at $2,500	$2,500 00	......	......	......
	Supervising Engineman, at $2,500.	......	$2,500 00	......	......
		$2,500 00	$2,500 00	......	......

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for employees of the Department of Water Supply, Gas and Electricity, paid from other than scheduled budgetary accounts for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Operation, Pumping Stations—

Salaries, Regular Employees, Corporate Stock and Water Revenue Force:

Mechanical Engineer, one at	$4,500 00
Mechanical Engineer, one at	1,800 00
General Inspector, one at	3,000 00
Draftsmen, three at	1,200 00
Clerks, two at	1,500 00
Clerk, one at	900 00
Clerks, two at	600 00
Clerk, one at	540 00
Stenographer and Typewriter, one at	1,200 00
Stenographer and Typewriter, one at	1,050 00
Inspectors, two at	1,200 00
Telephone Operators, four at	900 00
Supervising Engineman, one at	2,500 00
Engineman, one at	2,500 00
Enginemen, six at	1,800 00
Enginemen, twenty-seven at	1,750 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of $3,800 special revenue bonds (subdivision 8, section 188 of the Charter), for the employment of additional help in the Children's Bureau, Department of Public Charities, Brooklyn, from July 1 to December 31, 1911; also recommending approval of a schedule for said fund:

(On June 29, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three thousand eight hundred dollars ($3,800), the proceeds whereof to be used by the Department of Public Charities for the purpose of employing additional help in the Children's Bureau, Borough of Brooklyn, during 1911.

Adopted by the Board of Aldermen June 13, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor June 27, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds in the sum of $3,800, the proceeds to be used by the Department of Public Charities for the purpose of employing additional help in the Children's Bureau, Brooklyn, from July 1 to December 31, 1911. In connection therewith I report, as follows:

At the request of the Commissioner of Charities an examination was made bv the Commissioner of Accounts of the conditions existing in the Children's Bureau, Brooklyn. In a report dated April 7, 1911, the Commissioner of Accounts stated that "one of the chief causes of the chaotic conditions found to exist is the lack of an adequate clerical force to keep the work up to date." To carry into effect the recommendations of the Commissioner of Accounts and establish a system similar to that in the Children's Bureau, Manhattan, it is proposed to expend the $3,800 from July 1 to December 31, 1911, as follows:

Superintendent, at $2,400 per annum, to replace the position of Clerk, at $1,800, now vacant	$300 00
Stenographer and Typewriter, at $600 per annum	300 00
Clerk, at $600 per annum	300 00
Cashier, at $1,000 per annum	500 00
Examiners of Charitable Institutions, four at $1,200 per annum	2,400 00
	$3,800 00

The Commissioner states that the appropriation will increase the efficiency of the Bureau by providing for a proper supervision and control of reinvestigation work, resulting in a material decrease in the number of children who are public charges. In addition, there will be a systematized "follow-up" of delinquent payers, with an increase in the amount received in partial support of committed children.

On May 31, 1911, the number of children maintained as public charges in the Boroughs of Brooklyn and Queens was 8,468. The number of children proposed for commitment during the first quarter of 1911 was 1,328. As a result of the investigations made by the ten Examiners connected with the Children's Bureau, 612 of the applications were denied. In addition to the investigations made at the time of application, 414 investigations were made of applications by parents and guardians for the discharge of children. The rules of the State Board of Charities require that reinvestigations should be made at least once a year into the ability of parents to maintain children who are public charges. From January 1 to March 31, 1911, the number of reinvestigations made was 600, or at the rate of 2,400 a year. This is a small percentage when compared with the total number of committed children, and is due to an inadequate force of Examiners. Their investigations resulted in fifty-five children being disapproved for further retention as public charges, representing an annual saving to the City of more than $6,000. It is estimated that with a sufficient force of Examiners the Bureau would be self-supporting.

The State Board of Charities, in a communication to this Board, dated April 17, 1911, called attention to the increase in the number of committed children, and stated that one of the causes of the increase was the failure to reinvestigate commitments. The State Board further stated this condition seems to have been largely due to an inadequate examining force in the Department of Public Charities.

The Stenographer and Clerk are for the efficient carrying on of the office work, The Cashier is to have charge of the moneys paid by parents towards the support of committed children. Based upon the receipts up to June 30, the amount for the year will approximate $15,000. The Bureau has been in charge of a Clerk at $1,800 per annum. The position is now vacant, through death, and it is proposed to place a Superintendent in charge, at $2,400 per annum. A similar position in Manhattan is at the rate of $2,700.

I recommend the adoption of the attached resolutions granting the request, approving a schedule for the special revenue bond fund, and the necessary modification of the budget schedule for the Bureau. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 13, 1911, requesting an issue of special revenue bonds in the sum of three thousand eight hundred dollars ($3,800), the proceeds whereof to be used by the Department of Public Charities for the purpose of employing additional help in the Children's Bureau, Borough of Brooklyn, from July 1 to December 31, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three thousand eight hundred dollars ($3,800), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules of salaries to be paid from other than budgetary funds for the Department of Public Charities for the year 1911, as follows:

Department of Public Charities.

Administration, Brooklyn and Queens, Children's Bureau—

Salaries, Regular Employees, Special Revenue Bond Force:

Stenographer and Typewriter, 1 at $600 per annum.

Clerk, 1 at $600 per annum.

Cashier, 1 at $1,000 per annum.

Examiners of Charitable Institutions, 4 at $1,200 per annum.

Salary increase, to be paid from Special Revenue Bonds:

Superintendent, from $1,800 to $2,400 per annum, $600.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Public Charities for the year 1911, to take effect July 1, as follows:

Department of Public Charities.

Administration, Brooklyn and Queens, Children's Bureau—

761. Salaries:

Superintendent	$1,800 00
Clerk	1,200 00
10 Examiners of Charitable Institutions, at $1,200	12,000 00
2 Pupil Examiners, at $480	960 00
	$15,960 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting an issue of $1,000 special revenue bonds (subdivision 8, section 188 of the Charter), for expenses of the Richmond County Society for the Prevention of Cruelty to Children in caring for children arrested in Richmond County and held for arraignment in the Children's Court, together with a report of the Comptroller, to whom, on April 6, 1911, this application was referred, recommending an issue of $650 for the purpose:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand dollars ($1,000), the proceeds whereof to be used by the Richmond County Society for the Prevention of Cruelty to Children for the purpose of caring for children arrested in Richmond County and being held for arraignment in the Children's Court.

Adopted by the Board of Aldermen March 14, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor March 28, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 14, 1911, the Board of Aldermen adopted a resolution requesting $1,000 in special revenue bonds, the proceeds to be used by the "Richmond County Society for the Prevention of Cruelty to Children" for the care of children arrested in Richmond County and held for arraignment in the Children's Court. In connection therewith I report as follows:

The $1,000 is for a deficit of $109.38 up to May 31, 1911, and for the expenses of the Society for the rest of the year.

The receipts and expenditures of the Society for the five months ending May 31, 1911, were as follows:

Expenditures.

Agent's salary and expenses	$432 25
Coal and wood	64 50
Sundries	104 21
Matron's salary	110 00
Telephone	23 18
Provisions	174 12
Repairs, etc	72 31
	$980 57

Receipts.

Balance from 1910	$193 23
Subscriptions	147 00
City of New York	333 32
Donations	197 64
	$871 19

Deficit, $109.38.

The average monthly expenditures for the five months was $196.11. This would give a total for the year of $2,353.31.

The Society during 1910 received $682.15 from donations, entertainments and membership fees. The same amount for 1911 would give total receipts of $1,682.15, or a deficit of approximately $650 for the year.

The Society states the following:

"The Richmond County Society for the Prevention of Cruelty to Children was organized in 1880, and was conducted for many years as a private charitable enterprise. During the past few years, The City of New York has appropriated $1,000 per annum to the Society.

"The expenses of the Society for the year ending December 31, 1909, were $1,762.67 of which $1,000 was received from The City of New York; $16 from relatives of children boarded with the Society, and the balance from private subscriptions and donations. The Society has now found it necessary to employ the entire time of an agent, thereby increasing its expenses $700 per annum; and with increasing expenses in other directions, it was already facing a serious deficit for the current year.

Under the provisions of chapter 659, Laws of 1910, the number of children brought to the Society's house is greatly increased, and moreover, instead of being taken before the City Magistrates on the following day, they now are obliged to await the session of the Children's Court, which sits but once a week, which at least trebles the average number of days spent by the children in the Society's house.

"The Society has no resources from which to meet these increased expenses, and it does not seem proper that this additional burden should be met by private subscriptions, even if it were possible to raise the money in that way.

"When the Society asked for a continuance of the $1,000 appropriation, it was quite ignorant of the added burden and expense which would be imposed upon it by the new law. The resources and accommodations of the Society are entirely insufficient for this additional work, and if this service is to be performed for the City, some means must be found to care for the additional expense involved.

The Society's managers are desirous of co-operating with the City and with the Children's Court as far as possible; but unless some relief can be found from the present situation, they apparently will have no alternative but to decline to receive such children in the future."

I recommend the adoption of the attached resolution granting the request to the extent of $650. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on March 14, 1911, requesting an issue of special revenue bonds in the sum of one thousand dollars ($1,000), the proceeds whereof to be used by the Richmond County Society for the Prevention of Cruelty to Children, for the purpose of caring for children arrested in Richmond County and being held for arraignment in the Children's Court, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of six hundred and fifty dollars ($650), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding six hundred and fifty dollars ($650), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($34,000), for improving the playground located under the Queensboro Bridge, in block west of Sutton place, between 59th and 60th streets, Manhattan, under the jurisdiction of said Department:

The City of New York, Department of Parks, Arsenal, Central Park, June 27, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller,* City of New York:

Sir—Herewith I beg to forward for the approval of the Board of Estimate and Apportionment, as required by resolution of said Board of January 5, last, plans and specifications for improving the playground located under Queensboro Bridge, in the block west of Sutton Place, between 59th and 60th streets, in the Borough of Manhattan.

This improvement is estimated to cost approximately $34,000, and will be chargeable against the fund provided by corporate stock issue designated as C-DP-58A.

Respectfully,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested approval of plans, specifications and estimated cost in the sum of $34,000, for improving the playground located under Queensboro Bridge in the block west of Sutton place, between 59th and 60th streets, Borough of Manhattan.

This playground is designed principally for an atheletic field where baseball and other games may be played. The plot, covering an area of approximately 52,856 square feet, is vacant and unimproved.

It is proposed to level the ground and inclose the property with rubble masonry and concrete walls, surmounted by a seven-foot wrought iron fence.

The construction of the playground proper will consist of excavating and filling to a subgrade elevation of eight inches below finished grade, rolling and ramming as required. Complete water and drainage systems are to be installed and surfacing material, composed of a mixture of gravel and steam cinders, spread in a sufficient quantity to bring the surface to a finished grade.

Seats of concrete in tiers are to be constructed along the southerly boundary and along portions of the easterly and westerly boundaries.

The estimate of cost, based on the quantities of labor and materials necessary to complete the work at fair estimated contract prices, is considered reasonable. The plans and specifications are satisfactory.

The cost of the work is to be charged to the corporate stock fund of $250,000, approved on June 3, 1911, and entitled C-DP-58A, Improvement of Playgrounds throughout the City.

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the plans, specifications and estimate of cost, thirty-four thousand dollars ($34,000), for improving the playground located under the Queensboro Bridge, in the block west of Sutton place, between 59th and 60th streets, Borough of Manhattan, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the County Clerk of Queens County relative to, and report of the Comptroller recommending that, the Board approve of the expenditure of the sum of $9,180 for recopying and transcribing books of public records in the office of the County Clerk of Queens County during the year 1911, and that the Comptroller be authorized to meet said sum from the proceeds of special revenue bonds issued pursuant to subdivision 7, section 188 of the Charter:

(On June 22, 1911, the request of the County Clerk of Queens County for an appropriation of $20,000 for the above purpose was referred to the Comptroller.)

Queens County Clerk's Office, Jamaica, N. Y., June 16, 1911.

To the Honorable the Board of Estimate and Apportionment, 277 Broadway, New York City;

Gentlemen—On April 15, 1911, I applied to your Board for an appropriation of $9,000 with which to complete the work of recopying and transcribing old libers in this office. This amount was in addition to an appropriation made for this year of $9,000.

Your Board, on the report of the Comptroller, took no action in the matter, as he reported that application should be made to the Board of Aldermen for an issue of special revenue bonds.

Since that meeting of the Board the Supreme Court has appointed two Commissioners to condemn the torn and mutilated books of record in this office and form a tentative report made of these books; it will require at least $15.000 and possibly $20,000 with which to complete the work and carry out the directions of the Supreme Court.

This work is a county charge and as such moneys can be provided, pursuant to subdivision 7 of section 188 of the Greater New York Charter, I will ask you to take this matter up and approve of the expenditure of the sum of $20,000 with which to carry on this work.

The statute provides that the work should be done, the Supreme Court has directed it; and as it is a mandatory and a county charge, I think it should not require action by the Board of Aldermen.

Can I ask your early and favorable consideration and action in this matter?

Respectfully yours, MARTIN MAGER, County Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 16, 1911, the County Clerk of Queens County, requested an appropriation of $20,000, pursuant to the provisions of subdivision 7, section 188 of the Greater New York Charter, for the work of recopying and transcribing old libers, in his office. In connection therewith I report as follows:

On April 15, 1911, the County Clerk of Queens County requested an appropriation of $9,000 for the same purpose. The request was denied and the County Clerk was advised to apply to the Board of Aldermen for an issue of special revenue bonds, as provided by subdivision 8, of section 188, of the Charter. The recopying was done by order of Justice Stapleton, of the Supreme Court, acting on a report of William F. Wyckoff and Louis Hess, Commissioners appointed to condemn torn and mutilated records. The Commissioners on June 22, 1910, condemned certain torn and mutilated records, and under the Court order it was mandatory on the County Clerk to perform the work. The budget appropriation for recopying and transcribing was $9,000. The expenditure from the appropriation to June 1, 1911, was $8,980, leaving an available balance of $20. The liabilities, consisting of unpaid claims, amounting to $9,200, leaving the sum of $9,180 to be provided.

I recommend adoption of the attached resolution approving of the request to the extent of $9,180. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the expenditure of a sum not to exceed nine thousand one hundred and eighty dollars ($9,180) to provide for a deficiency in the appropriation for Recopying and Transcribing Books of Public Record in the office of the County Clerk of Queens County, and recommends that payment of the same be made by the Comptroller out of the

sale of special revenue bonds of The City of New York, issued pursuant to the provisions of subdivision 7, of section 188, of the Greater New York Charter.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Trustees of the Bellevue and Allied Hospitals requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($1,157) for furnishing and installing a complete fire alarm system in Harlem Hospital, under the jurisdiction of said Board of Trustees.

Bellevue and Allied Hospitals, Office of the Board of Trustees, First avenue and Twenty-sixth street, New York, July 5, 1911.

Hon. William A. Prendergast, *Comptroller, Department of Finance*, New York City:

Sir:—My attention has been drawn to the fact that a contract has been awarded to the Phillips Manufacturing Company for the installation of a fire alarm system in Harlem Hospital, the plans and specifications for which have not been approved by the Board of Estimate and Apportionment, although the contract is chargeable against corporate stock. This is an oversight which we very much regret. At the time the advertisement was authorized, it was understood that the contract was payable from the current appropriations, the same as the contract on the fire sprinkler system now being installed in Bellevue Hospital, for which provision was made in the appropriations for 1911. As a matter of fact, however, a special appropriation of corporate stock amounting to $7,000 was authorized on June 25, 1909, and was released by the Board of Estimate and Apportionment on May 23, 1910. When the appropriation was first authorized on June 25, 1909, the plans and specifications were approved by the Board of Estimate and Apportionment.

These were subsequently somewhat modified to meet the ideas of Professor Sevier, Consulting Engineer of the Department of Water Supply, Gas and Electricity, who has kindly given the trustees much advice in regard to the protection of the hospitals against fire. Specifications were formally approved by his department, and before the contract was awarded, the bids were referred to that department for examination. Attached is a copy of the reply received, recommending the acceptance of the lowest bid, together with a copy of our letter of transmittal. Under the circumstances, we trust that you will authorize approval of the contract at once, as the danger from fire is too great to warrant any delay.

Respectfully, JOHN W. BRANNAN, President, Board of Trustees.

June 1, 1911.

Hon. Henry S. Thompson, *Commissioner, Department of Water Supply, Gas and Electricity*, 13 Park Row, New York City:

Sir—Enclosed please fine a list of bids received on May 26th for the installation of a fire alarm system at Harlem Hospital. Will you kindly let us know if in your opinion the lowest bid is fair and reasonable and should be accepted?

Respectfully, JAMES K. PAULDING, Secretary, Board of Trustees.

List of bids opened on May 26, 1911, for the installation of a fire alarm system at Harlem Hospital:

Phillips Manufacturing Company	$1,157 00
T. Frederick Jackson, Incorporated	1,492 00
Gamewell Fire Alarm Telegraph Company	1,758 25
Frederick Pearce Company	1,900 00

Department of Water Supply, Gas and Electricity, 13-21 Park Row, City of New York, June 12, 1911.

Mr. J. K. Paulding, *Secretary, Board of Trustees, Bellevue and Allied Hospitals*, 1st avenue and 26th street, Manhattan:

Dear Sir—In answer to your letter of June 1, transmitting the list of bids received on May 26th for the installation of a fire alarm system at Harlem Hospital and asking if, in my opinion, the lowest bid is fair and reasonable and should be accepted, I beg to advise you that this matter was referred to Mr. Lacombe and Professor Sever, and the latter reports that in his opinion the bid of the Phillips Manufacturing Company is fair and reasonable and can be accepted. The specifications under which these bids were called are very clear and definite, and if accurately complied with, will provide a perfectly satisfactory fire alarm system at the Harlem Hospital.

Very truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics. July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 5, 1911, the President of the Board of the Trustees of Bellevue and Allied Hospitals requested the approval of the plans, specifications and estimate of cost, in the sum of $1,157, for furnishing and installing a complete Fire Alarm System in Harlem Hospital, Borough of The Bronx.

The plans and specifications have been formally approved by the Department of Water Supply, Gas and Electricity. The following bids were received and opened for the work by the Board of Trustees of Bellevue and Allied Hospitals on May 26, 1911:

Phillips Manufacturing Co.	$1,157 00
T. Frederick Jackson	1,492 00
The Gamewell Fire Alarm Tel. Co.	1,758 25
Frederick Pierce	1,900 00

The cost of this work is to be charged against the Corporate Stock Fund, entitled "C-BH-9a, Installation of Fire Alarm System in Bellevue and Harlem Hospitals." There is sufficient balance in the fund to pay for the proposed work.

The plans and specifications appear to be complete and satisfactory, and the estimate of cost is the lowest bid received for the work.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimated cost, in the sum of one thousand one hundred and fifty-seven dollars ($1,157), for furnishing and installing a complete Fire Alarm System in Harlem Hospital, under the jurisdiction of the Department of Bellevue and Allied Hospitals.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Comptroller relative to increase in salaries of employees paid out of non-budgetary accounts, and recommending the adoption of the following resolutions:

1. That the rates of salaries and wages of employees to be paid out of other than tax budget accounts or budgetary part account, shall be fixed annually at the time of the adoption of the corporate stock budget, and that any salary or wage increase, except those required by the prevailing rate of wages law, shall be limited within the succeeding twelve months to the annual rate then fixed, on the same principle which is now operative with regard to salary increases of employees paid out of the annual tax budget.

2. That, in the instances where schedules of employees are required for corporate stock or other work authorized in the intervals between corporate stock budgets, the rates fixed by such schedules must not be exceeded until action thereon at the next succeeding corporate stock budget period.

Which was laid over until the meeting of July 27, 1911.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller, relative to, the modification of salary Schedule No. 479, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for an increase in the salary of an Engineer from $2,400 to $2,700 per annum, the reduction of a Stenographer from $1,200 to $1,050 per annum, and the elimination of a Keeper at $1,000 per annum, to be effective as of July 1, 1911:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York. June 29, 1911.

Mr. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I wish to promote, by an increase in salary from $2,400 to $2,700, an Assistant Engineer in this Department who has been for twenty-six years employed on the Croton Watershed, having charge of the maintenance and operation of all aqueducts and reservoirs supplying water to the Boroughs of Manhattan and The Bronx, as well as the force employed on the entire watershed.

The appropriation out of which he is paid has ample funds owing to the reduction in one item from $1,200 to $1,050, and to the reduction of $1,000 in the item for Keepers, reducing the number from three to two.

I respectfully request that the Board of Estimate and Apportionment approve the modified schedule herewith enclosed, supporting account No. 479, entitled "Collection and Storage, Croton and Bronx System, Care of Watersheds, Aqueducts, Ponds and Reservoirs, Croton Water System, Salaries,"

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics. July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the 1911 schedule entitled Collection and Storage, Croton and Bronx System, Care of Watersheds, Aqueducts, Ponds and Reservoirs, Croton Water System, No. 479, Salaries. In connection therewith I report as follows:

It is proposed to increase an Assistant Engineer from $2,400 to $2,700 per annum; to reduce a Stenographer from $1,200 to $1,050 per annum, and to drop a Keeper at $1,000 per annum, the balance of $850 to be scheduled as unassigned.

The Commissioner states that the Assistant Engineer has been employed for twenty-six years on the Croton Watershed, having charge of the maintenance and operation of all aqueducts and reservoirs supplying water to the Boroughs of Manhattan and The Bronx, as well as the force employed on the entire watershed.

The following table shows the changes in detail:

Code No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
479.	Assistant Engineer	$2,400 00	....	$1,200 00	....
	Assistant Engineer	....	$2,700 00	....	$1,350 00
	Stenographer	1,200 00	....	600 00	....
	Stenographer	....	1,050 00	....	525 00
	Keepers, 3 at $1,000......	1,000 00	....	500 00	....
	Unassigned	....	850 00	....	425 00
		$4,600 00	$4,600 00	$2,300 00	$2,300 00

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Collection and Storage, Croton and Bronx Systems, Care of Watersheds, Aqueducts, Ponds and Reservoirs—

479. Salaries, Croton Water System:

Assistant Engineer, 1 at $2,700	$2,700 00
Assistant Engineer, 1 at $2,100	2,100 00
Leveler, 1 at $1,400	1,400 00
Stenographer, 1 at $1,050	1,050 00
Superintendent, Ponds, etc., 1 at $2,500	2,500 00
Keepers, 2 at $1,400	2,800 00
Keeper, 1 at $1,200	1,200 00
Keepers, 2 at $1,000	2,000 00
Foreman, 1 at $1,000	1,000 00
Unassigned	850 00
	$17,600 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 576, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for a readjustment of the number of days for mechanics and laborers:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 29, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—The schedule supporting Account No. 576, Water Supply, Borough of Queens, Distribution, Maintenance, Wages Temporary Employees, provides inadequately for the extra time of Laborers. For other employees in the same schedule there is more than sufficient, and I respectfully request that the Board of Estimate and Apportionment approve a modification of this schedule in accordance with the enclosed proposed schedule. Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the 1911 schedule entitled Water Supply, Borough of Queens, Distribution, Maintenance, No. 576, Wages, Temporary Employees. In connection therewith I report as follows:

The proposed modification is for a readjustment of the number of days for mechanics and laborers. The following table shows the change in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
576.	Caulkers, at $4 a day (285 days)	$708 00	....	$708 00	....
	Tappers, at $4 a day (30 days)	52 00	....	52 00	....
	Assistant Foremen, at $3 a day (72 days)	102 00	....	102 00	....
	Toolmen, at $2.50 a day (10 days)	....	$30 00	....	$30 00
	Pipefitters, at $5 a day (10 days)	....	85 00	....	85 00
	Pipefitters' Helpers, at $2.50 a day (10 days)	....	90 00	....	90 00
	Machinists' Helpers, at $3 a day (10 days)	....	12 00	....	12 00
	Laborers, at $2.50 a day (200 days)	....	645 00	....	645 00
		$862 00	$862 00	$862 00	$862 00

No increased compensation is involved.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the Department of Water Supply, Gas and Electricity for the year 1911, as follows:

Department of Water Supply, Gas and Electricity.

Water Supply, Borough of Queens, Distribution, Maintenance—

576. Wages, Temporary Employees:

Caulkers, at $4 per day (108 days)	$432 00
Tappers, at $4 per day (17 days)	68 00
Assistant Foreman, at $3 per day (38 days)	114 00
Toolmen, at $2.50 per day. (22 days)	55 00
Pipefitters, at $5 per day (27 days)	135 00
Pipefitters' Helpers, at $2.50 per day (46 days)	115 00
Bricklayers, at $5.60 per day (10 days)	56 00
Carpenters, at $4.50 per day (10 days)	45 00
Machinists' Helpers, at $3 per day (14 days)	42 00
Laborers, at $2.50 per day (458 days)	1,145 00
	$2,207 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, the revisions of the non-budgetary schedule of wages for the operation of pumping stations for said Department, for the year 1911, to be effective as of April 13, 1911, providing for 42 oilers instead of 41, as in the original schedule approved by the Board:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York. June 29, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In the schedule of "Wages, Regular Employees, Water Revenue Force, Operation of Pumping Stations," provision was made for only 41 Oilers. There were, however, at the time the schedule was adopted, 42 Oilers and that number is still employed.

I respectfully request that the Board of Estimate and Apportionment modify the foregoing mentioned schedule, providing that it take effect April 13, and enclose a modified schedule for their approval.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Commissioner of Water Supply, Gas and Electricity, under date of June 29, 1911, for a revision of the non-budgetary schedule of wages for the operation of Pumping stations, I report as follows:

The schedule provides for 41 Oilers. The Commissioner states that this was an error, for the reason that at the time the schedule was adopted 42 incumbents were employed. The incumbents still are on the payroll.

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for employees of the Department of Water Supply, Gas and Electricity, paid from other than scheduled budgetary funds for the year 1911, to be effective as of April 13, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Operation, Pumping Stations, Water Revenue Force—

Wages, Regular Employees:

Cleaner, 1 at	$360 00
Enginemen, 101 (365 days) at per day	4 50
Oilers, 42 (365 days) at per day	3 00
Stokers, 182 (365 days) at per day	3 00
Coal Passers, 13 (365 days) at per day	2 50
Laborers, 44 (365 days) at per day	2 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the Board of Education requesting, and report of the Comptroller relative to, the modification of Budget Schedule No. 1217, Budgetary part allowance and Corporate Stock Force, Bureau of Buildings, Department of Education, for the year 1911, providing for certain increases in salaries and an increase in the staff:

Department of Education, City of New York, Park Avenue and 59th Street, New York, May 31, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In accordance with a resolution adopted by the Board of Education on November 23, 1910, the undersigned respectfully request modifications in salary schedules for the year 1911, as follows:

1217. Bureau of Buildings, Division of Repairs—

Salaries:

Strike out—

Architectural Draftsmen, 5 at	$35 00 per week
Mechanical Draftsmen, 2 at	37 50 per week

—and insert

Architectural Draftsmen, 4 at	$35 00 per week
Mechanical Draftsman, 1 at	37 50 per week
Mechanical Draftsman, 1 at	42 50 per week
Mechanical Draftsman, 1 at	30 00 per week

Bureau of Buildings, Corporate Stock Force—

Strike out (in the schedule forwarded on May 15, 1911):

Architectural Draftsmen, 5 at, per week	$45 00
Architectural Draftsmen, 7 at, per week	40 00
Architectural Draftsmen, 5 at, per week	35 00

—and insert

Architectural Draftsmen, 6 at, per week	$45 00
Architectural Draftsmen, 6 at, per week	40 00
Architectural Draftsmen, 4 at, per week	35 00
Mechanical Draftsman, 1 at, per week	27 50

The modifications of the schedule for the Bureau of Buildings, Corporate Stock Force, are in addition to the modifications requested in our communication of May 15, 1911.

Copies of the schedules, as modified, are enclosed. Respectfully yours,

A. E. PALMER, Secretary, Board of Education; HENRY R. M. COOK, Auditor, Board of Education.

Department of Education, City of New York, Park Avenue and 59th Street, New York, June 27, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In accordance with a resolution adopted by the Board of Education on November 23, 1910, the undersigned respectfully request that the schedule for the Bureau of Buildings, Corporate Stock Force, be modified by adding thereto the following:

Inspector of Masonry and Carpentry, 1 at, per week	$30 00

The above modification is in addition to the modifications requested in our communications of May 31, 1911, and June 20, 1911, and is requested by the Superintendent of School Buildings, who states that the same is necessary because the immediate services of an Inspector are required on a new school building.

Respectfully yours,

A. E. PALMER, Secretary, Board of Education; HENRY R. M. COOK, Auditor, Board of Education.

Department of Education, City of New York, Park Avenue and 59th Street, New York, July 7, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In accordance with a resolution adopted by the Board of Education on November 23, 1910, the undersigned respectfully request modifications of salary schedules for the year 1911, as follows:

Bureau of Buildings, Corporate Stock Force—
Strike out (in the schedule forwarded on June 27, 1911):
Inspectors of Masonry and Carpentry, 7 at, per week.................. $33 00
Inspector of Masonry and Carpentry, 1 at, per week.................. 30 00
—and insert
Inspectors of Masonry and Carpentry, 9 at, per week.................. $33 00
Inspectors of Masonry and Carpentry, 3 at, per week.................. 30 00
1217. Bureau of Buildings, Division of Repairs—
Salaries:
Strike out (in the schedule forwarded on June 20, 1911):
Inspectors of Masonry and Carpentry, 14 at, per week.................. $36 00
Inspector of Masonry and Carpentry, 1 at, per week.................. 33 00
—and insert
Inspectors of Masonry and Carpentry, 12 at, per week.................. $36 00
Inspectors of Masonry and Carpentry, 3 at, per week.................. 33 00

The modifications of the schedule for the Corporate Stock Force are in addition to the modifications requested in our communications of May 31, June 20 and 27, 1911, and are requested by the Superintendent of School Buildings, who states that the same are necessary because the immediate services of Inspectors are required on fire-protection work. The modifications of Schedule 1217 are in addition to the modifications requested in our communications of May 31 and June 20, 1911.

Respectfully yours,

A. E. PALMER, Secretary, Board of Education; HENRY R. M. COOK, Auditor, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 31, June 27 and July 7, 1911, the Board of Education requested the modification of Schedule No. 1217, Bureau of Buildings, Salaries, Budgetary Part Allowance, and the schedule for the Corporate Stock Force, Bureau of Buildings. In connection therewith I report as follows:

Report on the request of May 31 was withheld pending the establishment of necessary grades. The proposed changes are as follows:

Schedule Line.	Present.	Proposed.
	Bureau of Buildings, Division of Repairs—	
1217.	Architectural Draftsmen, 5 at $35 per week	4 at $35 00
	Mechanical Draftsmen, 2 at $37.50 per week	1 at 37 50
	Mechanical Draftsman	1 at 42 50
	Mechanical Draftsman	1 at 30 00
	Inspectors of Masonry and Carpentry, 14 at $36 per week	12 at 36 00
	Inspector of Masonry and Carpentry, 1 at $33 per week	3 at 33 00
	Bureau of Buildings, Corporate Stock Force—	
	Architectural Draftsmen, 5 at $45 per week	6 at $45 00
	Architectural Draftsmen, 6 at $40 per week	5 at 40 00
	Mechanical Draftsman, 1 at $22.50 per week	1 at 27 50
	Inspectors of Masonry and Carpentry	3 at 30 00
	Inspectors of Masonry and Carpentry, 7 at $33 per week	9 at 33 00

In No. 1217 there is a vacant position of Architectural Draftsman at $35 per week. It is proposed to promote Frederick C. Purdy, Mechanical Draftsman, from $27.50 to $30 per week and George D. Farnham, Mechanical Draftsman, from $37.50 to $42.50 per week. There are also two vacant positions of Inspector of Masonry and Carpentry at $36 per week, which it is proposed to fill by transferring two Inspectors of Masonry and Carpentry at $33 per week to this schedule from the corporate stock force.

In the schedule for the corporate stock force it is proposed to increase Louis M. Thorn, Architectural Draftsman, from $40 to $45 per week, and George Krug, Jr., Mechanical Draftsman, from $22.50 to $27.50 per week. It is further proposed to increase the force by appointing three Inspectors of Masonry at $30 per week and two at $33 per week, besides filling two vacancies at the latter rate.

The promotion of Purdy is impracticable, because the necessary grade does not exist for an additional incumbent. With this exception the proposed changes in detail are as follows:

Account No.	Schedule Line.	Schedule Transfer.	
		Decrease.	Increase.
	Bureau of Buildings, Division of Repairs, Budgetary Part Allowance—		
1217.	Architectural Draftsman, 1 at $35 per week	$35 00	......
	Mechanical Draftsman, 1 at $37.50 per week	37 50	......
	Mechanical Draftsman, 1 at $42.50 per week	......	$42 50
	Inspectors of Masonry and Carpentry, 2 at $36 per week	72 00	......
	Inspectors of Masonry and Carpentry, 2 at $33 per week	......	66 00
		$144 50	$108 50
	Bureau of Buildings, Corporate Stock Force—		
	Architectural Draftsman, 1 at $45 per week	......	$45 00
	Architectural Draftsman, 1 at $40 per week	$40 00	......
	Mechanical Draftsman, 1 at $22.50 per week	22 50	......
	Mechanical Draftsman, 1 at $27.50 per week	......	27 50
	Inspectors of Masonry and Carpentry, 3 at $30 per week	......	90 00
	Inspectors of Masonry and Carpentery, 2 at $33 per week	......	66 00
		$62 50	$228 50

The net result of the proposed changes is to increase the staff by four employees. This would appear to be justified by the larger appropriations of corporate stock already made and pending for the year 1911.

The attached resolutions, if adopted, will grant the requests, with the one exception hereinbefore mentioned. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Education for the year 1911, as follows:

Department of Education.

Bureau of Buildings, Division of Repairs, Special School Fund, Maintenance—

1217.	Salaries:	
	Chief of Heating and Ventilating Division, per annum	$4,000 00
	Chief of Electrical Division, per annum	3,000 00
	Assistant Chief of Electrical Division, 1 at, per annum	2,800 00
	Chief of Furniture Division, 1 at, per annum	2,600 00
	Assistant Chief of Furniture Division, 1 at, per week	45 00
	Assistant Chief of Sanitary Division, 1 at, per annum	2,800 00
	General Inspector, 1 at, per week	45 00
	General Inspector of Repairs, 4 at, per week	45 00
	Inspector of Mason's Materials, 1 at, per annum	2,860 00
	Laborer, 1 at, per annum	1,000 00
	Plumber, 1 at, per week	36 00
	Inspector of Masonry, 1 at, per week	45 00
	Inspectors of Masonry, 5 at, per week	36 00
	Electrical Inspector, 1 at, per week	37 50
	Electrical Inspectors, 2 at, per week	33 00
	Electrical Inspectors, 3 at, per week	30 00
	Inspector of Electric Conductors, 1 at, per week	36 00
	Inspectors of Repairs, 10 at, per week	36 00
	Inspectors of Carpentry, 2 at, per week	36 00
	Heating and Ventilating Inspectors, 2 at, per week	42 00
	Heating and Ventilating Inspectors, 4 at, per week	36 00
	Heating and Ventilating Inspectors, 4 at, per week	33 00
	Heating and Ventilating Inspectors, 3 at, per week	30 00
	Inspector of Light and Ventilation, 1 at, per week	30 00
	Sanitary Inspectors, 10 at, per week	36 00

Inspectors of Masonry and Carpentry, 12 at, per week	36 00
Inspectors of Masonry and Carpentry, 3 at, per week	33 00
Architectural Draftsman, 1 at, per week	42 50
Architectural Draftsman, 1 at, per week	45 00
Architectural Draftsmen, 4 at, per week	35 00
Architectural Draftsman, 1 at, per week	32 50
Architectural Draftsmen, 5 at, per week	30 00
Architectural Draftsmen, 2 at, per week	27 50
Architectural Draftsman, 1 at, per week	25 00
Architectural Draftsmen, 2 at, per week	22 50
Architectural Draftsmen, 2 at, per week	20 00
Assistant Architectural Draftsman, 1 at, per week	30 00
Draftsman's Helper, 1 at, per week	17 50
Mechanical Draftsman, 1 at, per week	45 00
Mechanical Draftsman, 1 at, per week	37 50
Mechanical Draftsmen, 2 at, per week	27 50
Mechanical Draftsman, 1 at, per week	25 00
Foreman Carpenter, 1 at, per week	35 00
Furniture Inspectors, 2 at, per week	36 00
Draftsman's Helper, 1 at, per week	22 50
Mechanical Draftsman, 1 at, per week	42 50

Budgetary Part Allowance, $135,000.

Department of Education.

Bureau of Buildings, Corporate Stock Force—

Architectural Draftsman, 1 at, per annum	$4,500 00
Architectural Draftsman, 1 at, per annum	3,000 00
Assistant Chief, Heating and Ventilating Division, 1 at, per annum	3,000 00
Clerk, 1 at, per annum	540 00
Clerks, 5 at, per annum	300 00
Cleaner, 1 at, per annum	480 00
Engineer, 1 at, per week	50 00
General Inspectors, 7 at, per week	45 00
Inspector Iron and Steel Construction, 1 at, per week	45 00
General Inspector of Repairs, 1 at, per week	45 00
Inspectors of Masonry and Carpentry, 11 at, per week	36 00
Inspectors of Masonry and Carpentry, 9 at, per week	33 00
Inspector of Buildings, 1 at, per week	36 00
Architectural Draftsmen, 6 at, per week	45 00
Architectural Draftsman, 1 at, per week	37 50
Architectural Draftsmen, 4 at, per week	35 00
Architectural Draftsmen, 5 at, per week	32 50
Architectural Draftsmen, 19 at, per week	30 00
Architectural Draftsmen, 3 at, per week	25 00
Architectural Draftsmen, 2 at, per week	22 50
Mechanical Draftsman, 1 at, per week	37 50
Mechanical Draftsmen, 2 at, per week	25 00
Draftsman's Helper, 1 at, per week	17 50
Structural Steel Draftsmen, 6 at, per week	35 00
Laborer, 1 at, per week	15 00
Expert Blue Printer, 1 at, per day	5 00
Junior Draftsmen, 11 at, per week	17 50
Architectural Draftsmen, 2 at, per week	50 00
Architectural Draftsmen, 5 at, per week	40 00
Mechanical Draftsmen, 5 at, per week	30 00
Structural Steel Draftsman, 1 at, per week	45 00
Assistant Foreman Carpenter, 1 at, per day	5 00
Mason, 1 at, per day	5 60
Inspectors of Masonry and Capentry, 3 at, per week	30 00
Mechanical Draftsman, 1 at, per week	27 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Bridges requesting, and report of the Comptroller recommending, the modification of

Salary Schedule No. 125, supporting the appropriation made in the Budget for the year 1911, for said Department providing for the substitution of a Stenographer and Typewriter at $900 per annum, and for one at $1,200 per annum, said modification to be effective as of July 1, 1911:

Department of Bridges, City of New York, 13-21 Park Row, Manhattan, N. Y., July 10, 1911.

Hon. William A. Prendergast, *Comptroller,* 280 Broadway, Manhattan:

Sir—I have to request a modification of schedule supporting the Budget Appropriation for the Department of Bridges for the year 1911, effective as of July 1, 1911, as follows:

Queensboro Bridge—
125. Salaries:

Drop line item reading		
Stenographer and Typewriter		$1,200 00
Add line items reading		
Stenographer and Typewriter	$900 00	
Unassigned	300 00	
		1,200 00

This request is made that the vacancy now existing in this schedule may be filled at a lower grade.

Copy of Revised Schedule herewith. Respectfully,

ARTHUR J. O'KEEFFE, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1911, the Commissioner of Bridges requested modification of the 1911 salary schedule for the Queensboro Bridge, No. 125, Salaries. It is proposed to drop a Stenographer and Typewriter, at $1,200 per annum, and add one at $900. the balance of $300 to be scheduled as unassigned.

The following table shows the changes in detail:

Code No.	Title.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
125.	Stenographer and Typewriter	$1,200 00	......	$600 00	......
	Stenographer and Typewriter	......	$900 00	......	$450 00
	Unassigned	......	300 00	......	150 00
		$1,200 00	$1,200 00	$600 00	$600 00

The Commissioner states that the request is made so that a vacancy at the $1,200 rate may be filled at the lower grade.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Bridges, for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Bridges.

Queensboro Bridge—
125. Salaries:

Assistant Engineer	$5,000 00
Assistant Engineer	3,500 00
Transitman	1,800 00
Storekeeper	1,200 00
Structural Steel Draftsman	1,800 00
Steel Inspectors, 2 at $1,650	3,300 00
Clerk	1,500 00
Stenographer and Typewriter	900 00
Messenger	1,200 00

Bridge Keepers, 6 at $900	5,400 00
Bridge Keepers, 9 at $1,095	9,855 00
Telephone Operator	750 00
Unassigned	300 00
	$36,505 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Street Cleaning requesting, and report of the Comptroller recommending, the modification of wage schedules for regular employees for said Department of Street Cleaning for the year 1911, to provide for the proper administration of the forces during the summer months, involving the transfer of $56,000:

Department of Street Cleaning of The City of New York, 13-21 Park Row, New York, July 6, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—I have to request that a further revision of schedules and transfer amounting to the sum of fifty-six thousand dollars ($56,000), be made within the appropriation allowed the Department of Street Cleaning for the year 1911, as follows:

From

Administration, Borough of Manhattan—	
Division of Sweeping:	
889. Wages, Regular Employees	$19,000 00
898. Repairs and Replacements by Contract or Open Order	8,000 00
Administration, Borough of Brooklyn—	
Division of Sweeping:	
915. Wages, Regular Employees	29,000 00
	$56,000 00

To

Administration, Borough of Manhattan—	
Division of Carting and Stable:	
891. Wages, Regular Employees	$19,000 00
897. Materials for Repairs and Replacements by Departmental Labor	8,000 00
Administration, Borough of Brooklyn—	
Division of Carting and Stable:	
917. Wages, Regular Employees	29,000 00
	$56,000 00

As it is impossible to conduct the business of the Department under the subdivision of the different codes, as represented by the supporting schedules, it has and will become necessary at different periods to revise the various codes to meet the requirements of the Department.

These transfers are necessary for the proper administration of the forces during the summer months, and are only temporary, as it is my intention to apply to your honorable Board for sufficient revenue bonds to meet the expected deficit on account of the appropriation allowed for 1911 being under the amount allowed for 1910.

Respectfully, WM. H. EDWARDS, Commissioner of Street Cleaning.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 6, 1911, the Commissioner of Street Cleaning requested modification of wage schedule for regular employees involving a transfer of $56,000 within appropriations for his Department for the year 1911. In connection therewith I report as follows:

It is proposed to transfer $19,000 from No. 889, Division of Sweeping, to No. 891, Division of Carting and Stable; $29,000 from No. 915, Division of Sweeping, to No. 917, Division of Carting and Stable, and $8,000 from No. 898, Repairs and Replacements by Contract or Open Order, to No. 897, Materials for Repairs and Replacements by Departmental Labor.

The Commissioner states that the transfer from the Division of Sweeping to the Division of Carting and Stable are necessary for the reason that it is impossible to properly operate the force under the present schedules.

The transfer of $8,000 from No. 898 to No. 897 is necessary, the Commissioner states, to enable him to liquidate outstanding liabilities chargeable against this account for Materials for Repairs and Replacements by Departmental Labor, and to give him a sufficient balance for the remainder of the year.

He further states that a saving has been made in No. 898, Repairs and Replacements by Contract or Open Order, but that the allowance of $60,000 made for No. 897, Repairs and Replacements by Departmental Labor, is insufficient to enable him to purchase material and make the repairs necessary during the year. An amount of $67,000 was requested by him in his estimate for 1911; this was reduced by the Budget Committee to $60,000.

The change made in the schedule for wages of regular employees entails no additional cost to the City, as shown in the following statement:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
889.	Sweepers, at $780............	$17,000 00	....	$17,000 00	....
	Sweepers, at $2 per day (19,500 days)	2,000 00	....	2,000 00	....
891.	Drivers, at $800..............	....	$17,000 00	....	$17,000 00
	Stablemen, at $760............	....	2,000 00	....	2,000 00
915.	Sweepers, at $2 per day (19,500 days)	29,000 00	....	29,000 00	....
917.	Drivers, at $2 per day (41,799 days)	....	29,000 00	....	29,000 00
920.	Boardmen, at $800...........	....	800 00	....	800 00
	Boardmen, at $2 per day (400 days)	800 00	....	800 00	....
		$48,800 00	$48,800 00	$48,800 00	$48,800 00

I recommend the adoption of the attached resolution granting the transfers and modifications. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Street Cleaning for the year 1911, as follows:

Department of Street Cleaning.

Administration, Borough of Manhattan, Division of Sweeping—

889. Wages, Regular Employees:

Item	Amount
Section Foremen, 58 at $1,200..............................	$69,600 00
Assistant Section Foremen, 117 at $900.........................	105,300 00
Driver	800 00
Section Station Keepers, 51 at $780............................	39,780 00
Custodians of Yards, 3 at $780.................................	2,340 00
Sweepers, 1,550 at $780..	1,209,000 00
	$1,426,820 00
Sweepers, at $780..	61,000 00
Sweepers, at $2 per day (18,500 days)	37,000 00
Machine and Sprinkling Cart Drivers, at $800...................	23,400 00
Machine and Sprinkling Cart Drivers, at $2 per day (14,357 days)..	28,714 00
Total..	$1,576,934 00

Administration, Borugh of Manhattan, Division of Carting and Stable—

891. Wages, Regular Employees:

Item	Amount
Stable Foremen, 11 at $1,500...................................	$16,500 00
Assistant Stable Foremen, 11 at $1,000.........................	11,000 00
Assistant Stable Foremen, 26 at $900...........................	23,400 00
Drivers, 550 at $800...	440,000 00
Hostlers, 80 at $800...	64,000 00
Stablemen, 90 at $760..	68,400 00
	$623,300 00

Drivers, at $800	57,000 00
Drivers, at $2 per day (50,000 days)	100,000 00
Hostlers, at $800	15,200 00
Hostlers, at $2 per day (2,818 days)	5,636 00
Stablemen at $760	9,600 00
Stablemen, at $2 per day (2,285 days)	4,570 00
Total	$815,306 00

Administration, Borough of Manhattan—

897. Material for Repairs and Replacements by Departmental Labor:

Lumber	$19,000 00
Hardware, iron and steel	7,000 00
Castings	7,000 00
Cart and harness supplies	21,000 00
Paints, oils, etc	4,000 00
Rope	5,000 00
Sundries	5,000 00
	$68,000 00

898. Repairs and Replacements by Contract or Open Order:

Broom blocks, refilling	8,000 00
Scow and dumper repairs	18,000 00
Sundries	6,000 00
	$32,000 00

Administration, Borough of Brooklyn, Division of Sweeping—

915. Wages, Regular Employees:

Section Foremen, 35 at $1,200	$42,000 00
Assistant Section Foremen, 86 at $900	77,400 00
Section Station Keepers, 30 at $780	23,400 00
Custodian of Yard	780 00
Sweepers, 750 at $780	585,000 00
	$728,580 00
Sweepers, at $780	78,000 00
Sweepers, at $2 per day (5,000 days)	10,000 00
Machine and Sprinkling Cart Drivers, at $800	32,800 00
Machine and Sprinkling Cart Drivers, at $2 per day (4,649 days)	9,298 00
Total	$858,678 00

Administration, Borough of Brooklyn, Division of Carting and Stable—

917. Wages, Regular Employees:

Stable Foremen, 8 at $1,500	$12,000 00
Assistant Stable Foremen, 8 at $1,000	8,000 00
Assistant Stable Foremen, 12 at $900	10,800 00
Drivers, 410 at $800	328,000 00
Hostlers, 56 at $800	44,800 00
Stablemen, 56 at $760	42,560 00
	$446,160 00
Drivers, at $800	28,402 00
Drivers, at $2 per day (56,299 days)	112,598 00
Hostlers, at $800	7,200 00
Hostlers, at $2 per day (2,151 days)	4,302,00
Stablemen, at $760	8,608 00
Stablemen, at $2 per day (1,016 days)	2,032 00
Total	$609,302 00

Administration, Borough of Brooklyn, Division of Final Disposition—

920. Wages, Regular Employees:

Scowmen, at $2.50 per day	$912.50
Boardmen, 7 at $800	5,600 00
	$6,512 50
Boardmen, at $800	1,600 00
Total	$8,112 50

Administration, Borough of The Bronx, Division of Carting and Stable—

942. Wages, Regular Employees:

Stable Foremen, 3 at $1,500	$4,500 00
Assistant Stable Foremen, 3 at $1,000	3,000 00
Assistant Stable Foremen, 6 at $900	5,400 00
Drivers, 100 at $800	80,000 00
Hostlers, 15 at $800	12,000 00
Stablemen, 15 at $760	11,400 00
	$116,300 00
Drivers, at $800	12,900 00
Drivers, at $2 per day (13,125 days)	26,250 00
Hostlers, at $800	3,200 00
Hostlers, at $2 per day (713 days)	1,426 00
Stablemen, at $760	1,520 00
Stablemen, at $2 per day (954 days)	1,908 00
Total	$163,504 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the Department of Street Cleaning for the year 1911, as follows:

Department of Street Cleaning.

From

Administration, Borough of Manhattan, Division of Sweeping—

889. Wages, Regular Employees.................................... $19,000 00

Administration, Borough of Brooklyn, Division of Sweeping—

915. Regular Employees $29,000 00

To

Administration, Borough of Manhattan, Division of Carting and Stable—

891. Wages, Regular Employees.................................... $19,000 00

Administration, Borough of Brooklyn, Division of Carting and Stable—

917. Wages, Regular Employees.................................... $29,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated to the Department of Street Cleaning for the year 1911, as follows:

Department of Street Cleaning.

From

Administration, Borough of Manhattan—

898. Repairs and Replacements by Contract or Open Order............ $8,000 00

To

897. Materials for Repairs and Replacements by Departmental Labor.... $8,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting the issue of $1,177.25 special revenue bonds (subdivision 8, section 188, of the Charter), to provide for increases in wages of Plumbers and Tinsmiths in the Department of Street Cleaning for the year 1911, together with a report of the Comptroller, to whom on July 6, 1911, this application was referred, recommending an issue of $881.50 for this purpose, and also recommending approval of a schedule for said fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand one hundred and seventy-seven dollars and twenty-five cents ($1,177.25), the proceeds whereof to be used by the Commissioner of Street Cleaning for the purpose of meeting increases in wages of Plumbers and Tinsmiths in Department of Street Cleaning.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 3, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to the resolution adopted by the Board of Aldermen on June 20, 1911, requesting special revenue bonds to the amount of $1,177.25, to be used by the Commissioner of Street Cleaning for the purpose of meeting increases in wages of Plumbers and Tinsmiths in his Department, I report as follows:

The request is to comply with resolutions passed by your Board on February 9 and March 23, 1911, and adopted by the Board of Aldermen on February 28 and April 4, 1911, respectively, establishing the grade of positions of Tinsmith, at $4.75 per diem, and Plumber, at $5.50 per diem, as the prevailing rates.

The $4.75 grade for Tinsmith became effective on March 14, 1911, and the $5.50 grade for Plumber on April 18, 1911. The increases therefor are computed from these dates.

There are seven Tinsmiths, at $4.50 per diem, and five Plumbers, at $5 per diem, in the Department. It will require special revenue bonds to the amount of $881.50 to pay the increases, as follows:

Plumbers, 5 at 60 cents per diem, 196½ days	$491 25
Tinsmiths, 7 at 25 cents per diem, 223 days	390 25
Total	$881 50

I recommend the adoption of the attached resolutions, concurring in the resolutions of the Board of Aldermen to the extent of $881.50, and providing a schedule for the fund. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds in the sum of one thousand one hundred and seventy-seven dollars and twenty-five cents ($1,177.25), the proceeds whereof to be used by the Commissioner of Street Cleaning for the purpose of meeting increases in wages of Plumbers and Tinsmiths in the Department of Street Cleaning for the year 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of eight hundred and eighty-one dollars and fifty cents ($881.50), and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding eight hundred and eighty-one dollars and fifty cents ($881.50), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for wage increases paid from other than Budget funds in the Department of Street Cleaning, for the year 1911, as follows:

Department of Street Cleaning.

Division of Mechanical Work, Boroughs of Manhattan, Brooklyn and The Bronx—

Wage increases, Regular Employees, to be Paid from Special Revenue Bonds:

Plumbers from $5 to $5.50 per diem (277 days), from April 18.

Tinsmiths from $4.50 to $4.75 per diem (277 days), from March 14.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting an issue of $700 special revenue bonds (subdivision 8, section 188 of the Charter), for the salary of a Stenographer and Typewriter in the Bureau of Licenses, Mayor's Office, from June 1 to December 31, 1911, together with a report of the Comptroller, to whom this application was referred June 29, 1911, recommending an issue of $600 for this purpose, and also recommending approval of a schedule for the fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of seven hundred dollars ($700), the proceeds whereof to be used by the Bureau of Licenses, Mayor's Office, for the purpose of paying salary of a Stenographer and Typewriter from June 1 to December 31, 1911.

Adopted by the Board of Aldermen June 13, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor June 26, 1911.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1911, the Board of Aldermen adopted a resolution requesting $700 in special revenue bonds, the proceeds to be used by the Bureau of Licenses,, Mayor's office, for the salary of a Stenographer and Typewriter, from June 1 to December 31, 1911. In connection therewith, I report as follows:

The Chief of the Bureau of Licenses states that Edward G. Ostrander has been employed in the Bureau since March, 1910, as Temporary Stenographer and Typewriter, and that his compensation at the rate of $1,200 per annum has been paid from the appropriation for contingencies.

The grade of position of Stenographer and Typewriter, at the $1,200 rate, was established for the Bureau on April 18, 1911, and it is proposed to appoint Mr. Ostrander to the position when an appropriation is available.

The incumbent has received compensation for his temporary services up to July 1. The sum of $600, therefore, will be required for the remainder of the year.

I recommend the adoption of the attached resolutions granting the request to the extent of $600 and approving a schedule for the fund. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 13, 1911, and approved by the Mayor June 26, 1911, requesting an issue of special revenue bonds to the amount of seven hundred dollars ($700), the proceeds whereof to be used by the Bureau of Licenses, Mayor's Office, for the purpose of paying the salary of a Stenographer and Typewriter, from June 1 to December 31, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of six hundred dollars ($600), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding six hundred dollars ($600), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the Mayoralty, Bureau of Licenses, for the year 1911, to take effect July 1, as follows:

The Mayoralty.

Bureau of Licenses—

Salaries, Revenue Bond Force:

Stenographer and Typewriter, 1 at....................................	$1,200 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of $3,200 special revenue bonds (subdivision 8, section 188 of the Charter) for the purpose of paying the salaries of ten additional Trained Nurses at the New York City Training School for Nurses, and for six Nurses at the Metropolitan Hospital Training School, for four months, beginning July 1, 1911, at the rate of $600 each per annum, Department of Public Charities; also recommending approval of a schedule for said fund:

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three thousand two hundred dollars ($3,200), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries of sixteen extra Nurses during four months of 1911, beginning July 1, 1911.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 3, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting $3,200 in special revenue bonds to pay the salaries of ten Trained Nurses at the City Hospital and six at the Metropolitan Hospital, Department of Charities, for four months, beginning July 1, 1911. In connection therewith I report as follows:

The Nurses are to fill vacation periods. The Commissioner states that the Department is unable to obtain a sufficient number of Pupil Nurses to enter the training schools to grant the regular Nurses their vacations. A similar condition in Bellevue Hospital has been provided for by the issue of special revenue bonds to the amount of $8,500.

I recommend the adoption of the attached resolution granting the request and approving schedule for the fund. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds in the sum of three thousand two hundred dollars ($3,200), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries of ten additional Trained Nurses at the New York City Training School for Nurses, and six at the Metropolitan Hospital Training School, for four months beginning July 1, 1911, at the rate of $600 per annum each, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New

York to an amount not exceeding three thousand two hundred dollars ($3,200), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the Department of Public Charities for the year 1911, as follows:

Department of Public Charities.

Institutions, Manhattan and The Bronx, New York City Training School for Nurses—

Wages, Temporary Employees, Revenue Bond Force:	
Trained Nurses, at $600 per annum (40 months)	$2,000 00
Metropolitan Hospital Training School—	
Wages, Temporary Employees, Revenue Bond Force:	
Trained Nurses, at $600 per annum (24 months)	1,200 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of $5,274 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the Comptroller for the payment of rent upon property under lease to The City of New York for the use of the various departments of the County government:

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of subdivision 8, section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of $5,274, the proceeds whereof to be used by the Comptroller for the payment of rent upon property under lease to The City of New York for use of the various Departments of the County governments.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a resolution of the Board of Aldermen, under date of June 27, 1911, requesting $5,274 in special revenue bonds for the payment of rent of property leased for the use of various departments of the County Governments, I report as follows:

On November 16, 1910, the Commissioners of the Sinking Fund authorized a lease of space in the building located at the northwest corner of Livingston and Court streets, known as 66-74 Court street, Borough of Brooklyn, for use of the District Attorney of Kings County, for a term of five years from January 15, 1911, at an annual rental of $7,536. This lease was duly executed and the District Attorney entered into possession of the premises on May 1, 1911. The rent is to start from that date.

This rent is a county charge, and, as no provision has been made for it in the Rent Budget it will be necessary to provide money for payment of the same from May 1, 1911, to December 31, 1911 (a period of eight months), at the rate of $7,536 a year, or $5,024.

On June 20, 1910, the Commissioners of the Sinking Fund authorized the Comptroller to pay to the Fidelity Storage Warehouse Company rental for storage of ambulances and army wagons (ten in all), at 107 West 96th street, Borough of Manhattan, for use of the Armory Board, at the rate of $5 a month for each vehicle, for a period not exceeding one year from June 1, 1910. The rent for the storage of these ambulances and wagons from June 1, 1910, to December 31, 1910, was paid from an unexpended balance in the Rent Budget for the year 1910. This is also a county charge, and no provision has been made for the payment of the same for the year 1911.

It will therefore be necessary to provide money for the payment of the storage of these ambulances and wagons for the five months in 1911, from January 1 to June 1, at $50 a month, or a total of $250.

The sum required, covering both items, is $5,274.

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds in the sum of five thousand two hundred and seventy-four dollars ($5,274), the proceeds whereof to be used by the Comptroller for the payment of rent upon property under lease to The City of New York for use of the various departments of the County Governments, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five thousand two hundred and seventy-four dollars ($5,274), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller, recommending an issue of $700 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of equalizing the salaries of the Assistant Sergeant-at-Arms of the Board of Aldermen, and for the meeting of the increase in salary of the Auctioneer's Process Server in the office of the President of the Board of Aldermen, from July 1, 1911; also recommending approval of a schedule for the fund:

(On June 15, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of seven hundred dollars ($700), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of equalizing the salaries of the Assistant Sergeant-at-Arms of the Board of Aldermen, commencing July 1, 1911—$600—and for meeting increase in salary of Auctioneer's Process Server in office of President, Board of Aldermen, commencing July 1, 1911—$100.

Adopted by the Board of Aldermen June 6, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor June 12, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 6, 1911, the Board of Aldermen adopted a resolution requesting $700 in special revenue bonds, to be used by the City Clerk and Clerk of the Board of Aldermen to equalize the salaries of Assistant Sergeants-at-Arms of the Board and to increase the salary of the Auctioneer's Process Server in the office of the President of the Board. In connection therewith I report as follows:

The request involves increased compensation for six Assistant Sergeants-at-Arms and the Auctioneer's Process Server, from $1,000 to $1,200 per annum each, from

July 1, 1911, to December 31, 1911. A resolution fixing the grades of positions for the increases was adopted by the Board of Aldermen on June 27, 1911.

I recommend the adoption of the attached resolutions granting the request and approving a schedule for the fund. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 6, 1911, and approved by the Mayor June 12, 1911, requesting an issue of special revenue bonds in the sum of seven hundred dollars ($700), the proceeds whereof to be used by the City Clerk and Clerk of the Board of Aldermen for the purpose of equalizing the salaries of the Assistant Sergeant-at-Arms of the Board of Aldermen, commencing July 1, 1911, $600, and for meeting increase in salary of Auctioneer's Process Server in Office of President, Board of Aldermen, commencing July 1, 1911, $100, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding seven hundred dollars ($700), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the Board of Aldermen and City Clerk, for the year 1911, as follows:

Board of Aldermen and City Clerk.

General Administration—Salary Increases, Regular Employees, to be paid from special revenue bonds—

Assistant Sergeant-at-Arms, 6, from $1,000 to $1,200	$1,200 00

Office, President, Board of Aldermen.

Salary Increases, Regular Employees, to be paid from special revenue bonds—

Auctioneer's Process Server, 1, from $1,000 to $1,200	$200 00

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following report of the Comptroller recommending that the Board approve of the expenditure of $5,000 for the salaries of two additional Assistant District Attorneys in the office of the District Attorney of Kings County from July 1 to December 31, 1911, and that payment of the same be made by the Comptroller from the proceeds of special revenue bonds issued pursuant to subdivision 7, section 188 of the Charter; also recommending approval of a schedule for the fund:

(On July 6, 1911, a resolution of the Board of Aldermen requesting an issue of $5,000 special revenue bonds (pursuant to subdivision 8, section 188 of the Charter) for the above purpose was referred to the Comptroller.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of $5,000, to be used by the District Attorney of Kings County for the salaries of two additional Assistant District Attorneys, as provided by chapter 309 of the Laws of 1911. In connection therewith, I report as follows:

Chapter 309 of the Laws of 1911 provides in part as follows:

"There shall not be more than twelve Assistant District Attorneys for the County of Kings. The power to appoint and to remove and to adjust, regulate and determine the salaries of Assistant District Attorneys for said county is hereby vested in the District Attorney of said county."

There are ten Assistant District Attorneys in the office. On July 1, 1911, the District Attorney, pursuant to the provisions of the new law, appointed two additional Assistant District Attorneys at $5,000 per annum each. It will be necessary, therefore, to provide $5,000 for the salaries of the two incumbents from July 1 to December 31, 1911.

I recommend the adoption of the attached resolutions approving of the issue of special revenue bonds in the necessary amount, pursuant to the provision of subdivision 7 of section 188 of the Greater New York Charter, and of a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the expenditure of a sum not to exceed five thousand dollars ($5,000) for the payment of the compensation of two additional Assistant District Attorneys at the rate of five thousand dollars ($5,000) per annum each, from July 1 to December 31, 1911, in the office of the District Attorney of Kings County, and recommends that payment of the same be made by the Comptroller out of the sale of special revenue bonds of the City of New York, issued pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

Which was adopted by the following vote:

Affirmative—The Mayor, The Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for employees paid from other than budgetary funds in the office of the District Attorney, Kings County, for the year 1911, to take effect as of July 1, 1911, as follows:

District Attorney, Kings County, Salaries, Revenue Bond Force, Assistant District Attorneys, 2 at $5,000.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of $215,000 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the President of the Borough of Manhattan for the purpose of repairing street pavements, other than stone block, upon which the period of maintenance by the original contractors has expired:

(On June 29, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two hundred and fifteen thousand dollars ($215,000), the proceeds whereof to be used by the President of the Borough of Manhattan for the purpose of repairing street pavements, other than stone block, upon which the period of maintenance by the original contractor has expired, in the Borough of Manhattan.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor June 28, 1911.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting $215,000 in special revenue bonds to be used by the President of the Borough of Manhattan for the purpose of repairing street pavements, other than stone block, upon which the period of maintenance by the original contract has expired. In connection therewith I report as follows:

The Budget appropriation for Repairs and Replacements by Contract or Open Order for 1910 was $175,000. The amount actually expended for repairs and replacements that year was $314,000. The deficiency was made up by the transfer of funds saved in other appropriation accounts. The Budget appropriation for Repairs and Replacements for 1911 was $317,000. In support of his request for the $215,000 to replenish the account, the President states the following:

The past winter was unusually harmful to the asphalt pavements, and particularly so to the many miles of sheet asphalt laid upon the old stone block foundation. It will therefore be necessary to lay during the year a much larger yardage of repairs than was originally estimated. This fact, coupled with an unexpected increase in the price of the sheet asphalt repair work, from 77 cents to 97 cents a yard, is responsible for the insufficiency of the present appropriation.

The amount of the existing contract for sheet asphalt repair is 270,000 square yards, of which there had been laid up to the first of June 235,000 yards. It is estimated that the balance of 35,000 yards will be exhausted by the middle of July, and that there will be needed for the balance of the year 175,000 yards.

The amount of the existing contract for asphalt block repair is 20,000 square yards, of which there had been laid up to the first of June 17,500 yards. It is estimated that the balance of 2,500 yards will be exhausted in July, and that there will be needed for the balance of the year 20,000 yards.

The total estimated cost of the above items is $222,280. There is, however, an unused balance in the present appropriation of $6,540, and it is accordingly believed that the amount asked for will be sufficient provision until the end of the present year.

The President states that the account cannot be replenished by transfers, for the reason that no unencumbered balances are available.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, and approved by the Mayor June 28, 1911, requesting an issue of special revenue bonds in the sum of two hundred and fifteen thousand dollars ($215,000), the proceeds whereof to be used by the President of the Borough of Manhattan for the purpose of repairing street pavements, other than stone block, upon which the period of maintenance by the original contractors has expired, in the Borough of Manhattan, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two hundred and fifteen thousand dollars ($215,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of $2,500 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the Court of Special Sessions for the purpose of furnishing, equipping and making alterations in the new office of the Probation Department, New York County, in the Ashland Building, 24th street and 4th avenue, together with a report of the Comptroller, to whom on July 6, 1911, this resolution was referred, stating that on June 1, 1911, the Board of Estimate and Apportionment adopted a resolution concurring in the resolution of the Board of Aldermen, adopted April 18, 1911, which authorized the issue of bonds in the above amount and for the same purpose, except that the amount was to be expended by the President of the Borough of Manhattan instead of the Court of Special Sessions, and recommending that the present request be disapproved, but that the resolution adopted June 1, 1911, be amended by substituting the Court of Special Sessions for the President of the Borough of Manhattan:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand five hundred dollars ($2,500), the proceeds whereof to be used by the Court of Special Sessions for the purpose of furnishing, equipping and making alterations in the new offices of the Probation Department, New York County, in the Ashland Building, 24th street and 4th avenue.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor, July 3, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting $2,500 in special revenue bonds, "the proceeds whereof to be used by the Court of Special Sessions for the purpose of furnishing, equipping and making alterations in the new offices of the Probation Department, New York County, in the Ashland building, 24th street and 4th avenue." In connection therewith, I report as follows:

On April 18, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds for the same amount and purposes, but the appropriation was "to be used by the President of the Borough of Manhattan." On June 1, 1911, the Board of Estimate and Apportionment approved of the request, and $2,500 in special revenue bonds was authorized.

An appropriation having already been made for equipping and furnishing the new offices for Probation Officers, there is no necessity for a new authorization. The resolution adopted by the Board of Aldermen on June 20, 1911, can be complied with by amending the resolution adopted by the Board of Estimate and Apportionment on June 1, 1911, by substituting the words "to be used by the Court of Special Sessions" for the words "to be used by the President of the Borough of Manhattan."

It seems that the rooms in the Ashland Building were altered, equipped and furnished for Probation Officers and contracts for the work and fittings awarded to the lowest bidders by the Chief Justice of the Court of Special Sessions. It also appears that the new offices were established, fitted up and in use when the appropriation to meet the cost was made.

Although there may have been a pressing necessity for the establishment of offices for the Probation Officers of the court, it seems that no liabilities should have been incurred before funds were provided.

The Chief Clerk of the Court of Special Sessions states that, as the alterations, equipment and furnishings were for leased premises, and not for a building owned by the City, the work and expenditures did not strictly come under the jurisdiction of the President of the Borough of Manhattan. He also states that through error the resolution adopted by the Board of Aldermen on April 18 provided that the proceeds of the special revenue bonds should be used by the President of the Borough of Manhattan instead of by the Court of Special Sessions.

I recommend that the present request be disapproved, and the adoption of the attached resolution allowing the proceeds of the authorization of June 1, 1911, to be used by the Court of Special Sessions instead of by the President of the Borough of Manhattan.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the request of the Board of Aldermen, as contained in resolution adopted June 20, 1911, as follows:

> "Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two thousand five hundred dollars ($2,500), the proceeds whereof to be used by the Court of Special Sessions for the purpose of furnishing, equipping and making alterations in the new offices of the Probation Department, New York County, in the Ashland Building, 24th street and 4th avenue."

—be and the same is hereby disapproved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment on June 1, 1911, as follows:

"Resolved, That the resolution adopted by the Board of Aldermen on April 18, 1911, requesting an issue of special revenue bonds in the sum of two thousand five hundred dollars ($2,500), the proceeds whereof to be used by the President of the Borough of Manhattan for the purpose of furnishing, equipping and making alterations in the new offices of the Probation Department of the Court of Special Sessions, New York County, in the Ashland Building, 24th street and 4th avenue, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of the City of New York to an amount not exceeding two thousand five hundred dollars ($2,500), redeemable from the tax levy of the year succeeding the year of their issue."

—be and the same is hereby amended by striking out the words "the proceeds whereof to be used by the President of the Borough of Manhattan" and inserting in place thereof the words "the proceeds whereof to be used by the Court of Special Sessions."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, the issue of $50,000 special revenue bonds (subdivision 8, section 188 of the Charter), to provide means for regenerating the lawns in Central Park, under the jurisdiction of the Commissioner of Parks, Boroughs of Manhattan and Richmond:

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of fifty thousand dollars ($50,000), the proceeds whereof to be used by the Commissioner of Parks, Manhattan and Richmond, for the purpose of regenerating the lawns in Central Park.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 3, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of The Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds to the amount of $50,000, to be used by the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the regeneration of the lawn in Central Park, I report as follows:

The Commissioner, in his estimate for the Corporate Stock Budget, included the proposed restoration of the lawns. The item was not approved by the Corporate Stock Budget Committee for the reason that it was not a proper corporate stock charge, and the Commissioner was advised to make application for special revenue bonds for the purpose.

The Commissioner proposes to have the lawns that are in the worst condition plowed, fertilized and seeded this summer, so that they may be turned over and seeded again in the early spring of 1912.

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds in the sum of fifty thousand dollars ($50,000), the proceeds whereof to be used by the Commissioner of Parks, Boroughs of Manhattan and Richmond, for the purpose of regenerating the lawns in Central Park, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of Board of Aldermen requesting, and report of the Comptroller recommending, an issue of $1,600 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the salaries of four additional Keepers at the Penitentiary, Blackwells Island, from July 1 to December 31, 1911, under the jurisdiction of the Department of Correction; also recommending approval of a schedule for the fund:

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one thousand six hundred dollars ($1,600), the proceeds whereof to be used by the Department of Correction for the purpose of paying salaries of four additional Keepers at the Penitentiary, Blackwells Island, from July 1, 1911, to and including December 31, 1911, at $800 per annum each.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a resolution adopted by the Board of Aldermen on June 27, 1911, requesting special revenue bonds to the amount of $1,600, to be used by the Department of Correction for the salaries of four additional Keepers at the Penitentiary, Blackwells Island, from July 1, 1911, to December 31, 1911, at $800 per annum each, I report as follows:

The Commissioner states he proposes to detail prisoners to make necessary repairs to the sea walls and roads, on both Blackwells and Randalls Islands, and that his present force of Keepers is not large enough to permit him to do this extra outside work. He also states that the need for more Keepers for the work was recognized by the Mayor on a recent visit to the Penitentiary.

I recommend, therefore, the adoption of the attached resolutions concurring in the resolution of the Board of Aldermen, and approving of a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds in the sum of one thousand six hundred dollars ($1,600), the proceeds whereof to be used by the Department of Correction for the purpose of paying salaries of four additional Keepers at the Penitentiary, Blackwells Island, from July 1, 1911, to and including December 31, 1911, at $800 per annum each, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York, to an amount not exceeding one thousand six hundred dollars ($1,600), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for salaries paid from other than Budget funds in the Department of Correction for the year 1911, to be effective as of July 1, as follows:

Department of Correction.

Administration of Institutions, Penitentiary—

Salaries, Regular Employees, Revenue Bond Force:

Keepers, 4 at $800 per annum.. $3,200 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting issue of $1,575 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the President of the Borough of Queens to pay the salaries of three Automobile Enginemen for the last six months of 1911, together with a report of the Comptroller, to whom on July 6, 1911, this application was referred, recommending an issue of $1,312.50 for this purpose for the last five months of 1911, and also recommending approval of a schedule for the fund:

In the Board of Aldermen.

Resolved, That, pursuant to subdivision 8, section 188 of the Charter of The City of New York, the Comptroller be and is hereby authorized to issue special revenue bonds to an amount not exceeding one thousand five hundred and seventy-five dollars ($1,575), proceeds whereof to be expended by the President of the Borough of Queens to pay the salary of three (3) Automobile Enginemen for the last six (6) months of the year 1911 at the rate of $1,050 per annum each.

Adopted by the Board of Aldermen June 27, 1911, three fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen adopted a resolution requesting $1,575 in special revenue bonds to be expended by the President of the Borough of Queens to pay the salary of three Automobile Enginemen for the last six months of the year 1911 at the rate of $1,050 per annum. In connection therewith I report as follows:

On October 7, 1910, the Board of Estimate and Apportionment approved a resolution of the Board of Aldermen for special revenue bonds to the amount of $6,000 for the purchase of three automobiles, one for the use of the President of the Borough, one for use in the Bureau of Highways and one for use in the Bureau of Street Cleaning and the Topographical Bureau.

The President states that the automobiles have been ordered, and that the request is to provide for automobile enginemen to drive them. The proposed rate of $1,050 is the customary compensation in other city departments. It is proposed to appoint the incumbents on August 1, 1911. The sum of $1,312.50, therefore, is necessary.

I recommend the adoption of the attached resolution, granting the request to the extent of $1,312.50, and approving a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds in the sum of one thousand five hundred and seventy-five dollars ($1,575), the proceeds whereof to be expended by the President of the Borough of Queens to pay the salary of three Automobile Enginemen for the last six (6) months of the year 1911, at the rate of $1,050 per annum each, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of one thousand three hundred and twelve dollars and fifty cents ($1,312.50), to provide for the salaries of three Automobile Enginemen for the last five (5) months of 1911, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one thousand three hundred and twelve dollars and fifty cents ($1,312.50), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules of salaries paid from other than budget funds in the office of the President of the Borough of Queens for the year 1911, to take effect August 1, as follows:

President, Borough of Queens, Salaries, Special Revenue Bond Force. Automobile Enginemen, 3 at $1,050 per annum.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Comptroller, recommending the issue of $6,065.51 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the salaries of two Pathologists from July 1 to December 31, 1911, at $1,500 each per annum, and for increases in wages of Deckhands from $500 to $720 per annum, from May 17 to December 31, 1911, and for Steamfitters from $5 to $5.50 a day, from March 15 to December 31, 1911, Department of Public Charities; also recommending approval of a schedule for the fund.

Which was laid over until the meeting of July 27, 1911.

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimates of cost for alterations and additions to the gas and electric lighting work in connection with the fireproof stairways, etc., in Public Schools 24, 41, 52 and 70, Borough of Manhattan, Department of Education, at $250, $200, $200 and $200, respectively:

Board of Education, Park Avenue and 59th street, New York, July 7, 1911.

Hon. W. A. PRENDERGAST, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of July 7, reading as follows:

"I am forwarding herewith plans and specifications for alterations and additions to the gas and electric lighting work in connection with the fireproof stairways, etc., in Public Schools 24, 41, 52 and 70, Borough of Brooklyn, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment in compliance with the resolution adopted by that Board on January 5, 1911.

"The plans and specifications have been returned by the Department of Water Supply, Gas and Electricity, approved, as noted on same."

The plans and specifications referred to in the above quoted communication are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 7, 1911, the Board of Education requested approval of plans, specifications and estimates of cost for alterations and additions to the gas and electric lighting work in connection with the fireproof stairways, etc., in the public schools in the Borough of Brooklyn, as follows:

	Approximate Cost.
Public School 24	$250 00
Public School 41	200 00
Public School 52	200 00
Public School 70	200 00

Their plans and specifications cover the alterations and additions to the gas and electric lighting, made necessary by the replacement of wooden stairways with fireproof stairways. The plans and specifications for the construction of the new stairways were approved by the Board of Estimate and Apportionment on June 11, 1911. The Department of Water Supply, Gas and Electricity has approved the plans and specifications for the gas and electric lighting work, and an examination of them shows that they are satisfactory and the estimates of cost reasonable.

The cost of the work is chargeable to the fund C-DE-80, Providing Fire Protection, Borough of Brooklyn. There is a sufficient balance in the account for the cost of the work.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the plans, specifications and estimates of cost for alterations and additions to the gas and electric lighting work in connection with the fireproof stairways, etc., in public schools in the Borough of Brooklyn, under the jurisdiction of the Department of Education, as follows:

Public School 24, estimated cost, two hundred and fifty dollars ($250).
Public School 41, estimated cost, two hundred dollars ($200).
Public School 52, estimated cost, two hundred dollars ($200).
Public School 70, estimated cost, two hundred dollars ($200).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending, approval, pursuant to resolution adopted June 3, 1910, of the specifications and estimates of cost by items, and not in the total, for furniture for new Public School 167, Brooklyn:

Board of Education, Park Avenue and 59th Street, New York, June 27, 1911.

Hon. Wm. A. Prendergast, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of June 27, 1911, reading as follows:

"I am forwarding herewith specifications for furniture for new Public School 167, Borough of Brooklyn, for transmission to the Comptroller to be presented to the Board of Estimate and Apportionment, in accordance with the resolution adopted by that Board on January 5, 1911:

	Approximate Cost.
Item 1	$1,780 00
Item 2	1,830 00
Item 3	1,750 00
Item 4	1,115 00
Item 5	1,200 00
Item 6	11,390 00
	$19,175 00

"I beg to call your attention to the approximate costs, which are somewhat over the appropriation. We will advertise and award up to the limit of the appropriation."

The specifications referred to in the foregoing communication are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 10, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Education requested approval of specifications and estimates of cost for furniture for new Public School 167, Borough of Brooklyn, as follows:

	Approximate Cost.
Item 1	$1,780 00
Item 2	1,830 00
Item 3	1,750 00
Item 4	1,225 00
Item 5	1,200 00
Item 6	11,390 00
	$19,175 00

Item 1 includes umbrella stands, kindergarten tables and chairs, sand tray, reading stand, specimen cases, bookcases, stools, folding screens, mirrors, couches, rugs, carpets, filing cabinets, key cabinet, shop closet, lumber rack, apparatus cabinet, refrigerator, fire extinguishing apparatus and work benches.

Item 2 is for slate blackboards.

Item 3 is for opera chairs.

Item 4 is for gymnasium apparatus.

Item 5 is for window shades.

Item 6 includes pupils' desks and seats, teachers' desks and chairs, tables, etc.

All the furniture specified under item 6 is to be furnished by the State Commission on Prisons. The Commission has given a release for other furniture specified, which it cannot furnish.

The specifications are satisfactory and the estimates of cost reasonable.

The cost of the work is to be charged to the corporate stock fund, C-DE-97B, for Furniture Work, Public School 167, Brooklyn, approved by the Board of Estimate and Apportionment on January 26, 1911.

The total estimated cost of the furniture is $19,175, which is $1,550 in excess of the appropriation. It is proposed to advertise and award this contract by items to the extent of the available appropriation. Should additional funds be necessary, the exact amount, as shown by the bids, will be asked for.

I recommend the adoption of the attaached resolution granting the request .

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted June 3, 1910, hereby approves the specifications and estimates of cost by items, and not in total, for furniture for new Public School 167, Borough of Brooklyn, under the jurisdiction of the Department of Education, as follows:

Item 1, estimated cost, one thousand seven hundred and eighty dollars ($1,780).
Item 2, estimated cost, one thousand eight hundred and thirty dollars ($1,830).
Item 3, estimated cost, one thousand seven hundred and fifty dollars ($1,750).
Item 4, estimated cost, one thousand two hundred and twenty-five dollars ($1,225).

Item 5, estimated cost, one thousand two hundred dollars ($1,200).

Item 6, estimated cost, eleven thousand three hundred and ninety dollars ($11,390).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting an issue of $845 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the Department of Education for the purpose of furnishing certain supplies and equipment for classes of anemic children, together with a report of the Comptroller, to whom on July 6, 1911, this resolution was referred, recommending that said request be disapprovel, as this appropriation is not urgent and may be held in abeyance for consideration with the 1912 Budget:

(On July 6, 1911, the resolution of the Board of Aldermen, as above, was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of eight hundred and forty-five dollars ($845), the proceeds whereof to be used by the Department of Education for the purpose of furnishing certain supplies and equipment for classes of anaemic children.

Adopted by the Board of Aldermen June 27, 1911, three fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen requested special revenue bonds in the sum of $845, the proceeds to be used by the Department of Education for the purpose of furnishing certain supplies and equipment for classes of anaemic children. In connection therewith I report as follows:

In the 1910 Budget, the sum of $6,500 was appropriated for fitting up classrooms for anaemic or tubercular children. In this account, No. 1037, there was a balance on July 12, 1911, as shown by the books in the Department of Finance, of $2,141.30. It is stated that the Board of Superintendents delayed making up their specifications for the supplies and equipment until it was too late to award a contract in 1910. For this reason special revenue bonds have been requested for items for which funds were provided in the 1910 Budget.

It would appear, therefore, that the need for equipping rooms for anaemic children is not very urgent, and may be held in abeyance for consideration in the 1912 Budget.

I recommend that the request for special revenue bonds be not approved.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the request of the Board of Aldermen as contained in resolution adopted June 27, 1911, and approved by the Mayor July 5, 1911, as follows:

> "Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of eight hundred and forty-five dollars ($845), the proceeds whereof to be used by the Department of Education for the purpose of furnishing certain supplies and equipment for classes of anaemic children."

—be and the same is hereby disapproved.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit copies of the report of the Comptroller to the Board of Aldermen and to the Board of Education.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of $319.50 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the increase in the wages of one Foreman of Plumbers, from $4 to $5.50 a day, from April 18 to December 31, 1911, in the Bureau of Public Buildings and Offices, Office of the President of the Borough of Queens, also recommending approval of a schedule for the fund:

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, pursuant to subdivision 8, section 188 of the Charter of The City of New York, the Comptroller be and is hereby authorized to issue special revenue bonds to an amount not exceeding three hundred and nineteen dollars and fifty cents ($319.50), the proceeds whereof to be used by the President of the Borough of Queens to increase the salary of William L. Ryan, Foreman of Plumbers, Bureau of Public Buildings and Offices, Borough of Queens, for two hundred and thirteen (213) days at one dollar and fifty cents ($1.50) per day, effective April 18, 1911, pursuant to resolution of the Board of Estimate and Apportionment of March 23, 1911, approved and agreed in by resolution of the Board of Aldermen of April 4, 1911, becoming a law, without the approval or disapproval of his Honor the Mayor, April 18, 1911, establishing in all City Departments the grade of position of Plumber at a salary of $5.50 per diem.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 3, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting $319.50 in special revenue bonds, to be expended by the President of the Borough of Queens to increase the wages of one Foreman of Plumbers, from $4 to $5.50 a day. In connection therewith I report as follows:

On March 23, 1911, the Board of Estimate and Apportionment adopted a resolution approving of the establishment in all City Departments of the grade of position of Plumber, at $5.50 a day. The rate was fixed by the Board of Aldermen on April 4, 1911, and become effective on April 18, 1911.

The request is to provide funds to pay William L. Ryan, Foreman of Plumbers, in the Bureau of Public Buildings and Offices, at the increased rate from April 18 to the end of the year.

I recommend the adoption of the attached resolution granting the request and approving a schedule for the fund. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds in the sum of three hundred and nineteen dollars and fifty cents ($319.50), the proceeds whereof to be used by the President of the Borough of Queens to increase the wages of William L. Ryan, Foreman of Plumbers, Bureau of Public Buildings and Offices, Borough of Queens, for two hundred and thirteen (213) days, at one dollar and fifty cents ($1.50) per day, effective April 18, 1911, pursuant to resolution of the Board of Estimate and Apportionment of March 23, 1911, approved of and concurred in by resolution of the Board of Aldermen of April 4, 1911, becoming a law April 18, 1911, establishing in all City departments the grade of position of Plumber, at a rate of $5.50 per diem, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding three hundred and nineteen dollars and fifty cents ($319.50), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Alder-

men and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule of wages paid from other than Budget funds in the office of the President of the Borough of Queens for the year 1911, to take effect April 18, as follows:

Bureau of Public Buildings and Offices.

Maintenance—

Wage Increase, Regular Employees:

Foreman of Plumbers, 1 from $4 to $5.50 per diem (302 days.)

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of $473.77 special revenue bonds (subdivision 8, section 188 of the Charter), the proceeds to be used by the President of the Borough of The Bronx for the purpose of liquidating a bill for services rendered by the Department of Docks and Ferries for boring work:

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of four hundred and seventy-three dollars and seventy-seven cents ($473.77), the proceeds whereof to be used by the Borough President of The Bronx for the purpose of paying bill of Department of Docks and Ferries for boring work.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 3, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of $473.77, the proceeds to be used by the President of the Borough of The Bronx to liquidate a bill for services rendered by the Department of Docks and Ferries. In connection therewith I report as follows:

The funds are to reimburse the Department of Docks and Ferries for expenditures incurred in connection with borings made for the President from March 6 to March 25, 1911. The necessity for the work of a bore and the force to operate it arose from an effort to ascertain the approximate cost for extending a sewer at White Plains avenue and the East River, from a point about 100 feet north of the bulkhead line to a considerable distance beyond the pier line, for a sewer extension to be paid for by assessment.

As the President had no equipment for making borings, the Department of Docks and Ferries loaned an apparatus and force. The itemized bill is as follows:

For use of borer, "Woodcock," from March 6 to 25, 1911:

18⅞ days, Engineer, at $4.50	$84 94
36 2-8 days, Dock Builders, at $3.50	126 88
94⅛ days, Laborers, at $2.50	235 33
Carfares	8 85
160 feet pipe, at .0945	15 12
1 Stillson wrench	69
23 couplings	1 96
	$473 77

I recommend the approval of the request by the adoption of the attached resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds in the sum of four hundred and seventy-three dollars and seventy-seven cents ($473.77), the proceeds whereof to be used by the President of the Borough of The Bronx, for the purpose of paying bill of the Department of Docks and Ferries for boring work, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding four hundred and seventy-three dollars and seventy-seven cents ($473.77), redeemable from the tax levy of the year succeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, communication from the Board of Education relative to, and report of the Comptroller recommending, an issue of $6,300 special revenue bonds (subdivision 8, section 188 of the Charter), to replenish the appropriation made to the Department of Education for the year 1911, entitled "Special School Fund—Repairs and Replacements by Contract or Open Order—General Repairs—1239—Borough of Queens":

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of six thousand three hundred dollars ($6,300), the proceeds whereof to be used by the Department of Education for the purpose of replenishing fund for general repairs.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

To the Board of Education:

The Committee on Finance respectfully reports that it is in receipt of the following communication:

"June 6, 1911.

"Hon. John Greene, *Chairman, Committee on Finance:*

"Dear Sir—I have the honor to advise you that at a meeting of the Committee on Buildings held on May 29, 1911, it was ordered that the Committee on Finance be requested to take the necessary steps to procure an immediate issue of special revenue bonds, in the sum of $6,300, in order to replenish the fund for general repairs, which will be utilized, in part, for the carrying out of the contracts for heating and ventilating apparatus and temperature regulation in Public School 7, Queens.

"The facts in relation to the matter are as follows:

"In the year 1910, through action by the Board of Estimate and Apportionment and the Board of Aldermen, $43,900, corporate stock, was made available for the equipment, including heating and ventilating and electric work of Public School 7, addition, Queens.

"On April 13, 1911, a resolution was adopted by the Board of Estimate and Apportionment approving the plans, specifications and estimates of cost for heating and ventilating work in said above-mentioned school building, and stating that $26,000 of the cost of the heating and ventilating apparatus is chargeable to corporate stock, and $5,000 to the Budget account for repairs and replacements, and that $3,000 of the cost of temperature regulation is chargeable to corporate stock, and $1,300 to the Budget account for repairs and replacements.

"There will, therefore, be a deficit of $6,300 in the general repair account, and the replenishment of that account by the immediate issue of special revenue bonds becomes absolutely essential. Respectfully yours,

"A. EMERSON PALMER, Secretary, Board of Education."

The following resolution is submitted for adoption:

Resolved, That the Board of Aldermen be and it is hereby respectfully requested to adopt a resolution requesting the Board of Estimate and Apportionment to authorize the issue of special revenue bonds to the amount of six thousand three hundred dollars ($6,300), pursuant to the provisions of subdivision 8 of section 188 of the revised Charter, for the purpose of replenishing the fund for general repairs, which will be utilized, in part, for the carrying out of the contracts for heating and ventilating apparatus and temperature regulation in Public School 7, Borough of Queens, and that the Board of Estimate and Apportionment be and it is hereby respectfully requested to authorize such issue upon the request of the Board of Aldermen.

A true copy of report and resolution adopted by the Board of Education on June 14, 1911. A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen requested special revenue bonds in the sum of $6,300, the proceeds to be used by the Department of Education to replenish the fund for general repairs. In connection therewith I report as follows:

In the Corporate Stock Budget for 1910, $43,900 was appropriated for the equipment, including heating, ventilating and electric work, for Public School 7, addition, Queens. On April 13, 1911, the Board of Estimate and Apportionment approved the plans, specifications and estimate of cost for heating and ventilating Public School 7, but decided that the estimated cost, in the sum of $6,300, was properly chargeable to the Budget allowance for repairs and replacements. The expenditure will cause a deficit in the amount in the general repairs allowance for the Borough of Queens, for 1911, and the replenishment therefore is proposed by the issue of special revenue bonds.

I recommend that the request be granted by the adoption of the attached resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds in the sum of six thousand three hundred dollars ($6,300), to replenish the appropriation made to the Department of Education for the year 1911, entitled and as follows:

Special School Fund.

Maintenance, Repairs and Replacements by Contract or Open Order, General Repairs—

1239. Borough of Queens.

—be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding six thousand three hundred dollars ($6,300), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Justice of the Supreme Court, Richmond County, requesting, and report of the Comptroller recommending, that the Board approve of the expenditure of $292 to provide for the increased compensation of two Court Attendants in the Supreme Court, Richmond County, from June 1 to December 31, 1911, and that the payment of the same be made by the Comptroller from the proceeds of special revenue bonds issued pursuant to subdivision 7, section 188 of the Charter; also recommending approval of a schedule for the fund:

New Brighton, Richmond County, N. Y., July 7, 1911.

Hon. William A. Prendergast, *Comptroller,* City of New York:

Dear Sir—There being no fund available from which to pay the increased salaries of the Court Attendants in the Supreme Court in Richmond County, and to conform to resolution adopted by the Board of Estimate and Apportionment June

15, 1911, which resolution provides: The said resolution provides for an increase of the salaries of two Court Attendants in the Supreme Court in and for the County of Richmond—one from $1,500 to $1,800 per annum, and one from $1,000 to $1,200 per annum, beginning June 1, 1911.

I respectfully request that the following resolution be adopted:

"Resolved, That, pursuant to subdivision 7, chapter 188 of the Greater New York Charter, the Comptroller be and is hereby authorized to issue special revenue bonds in the sum of two hundred and ninety-two dollars ($292), the proceeds of the same to be for the payment of the increased salaries of two Court Attendants in the Supreme Court in Richmond County, beginning June 1, 1911."

Respectfully yours,

LESTER W. CLARK, Justice, Supreme Court, Richmond County, New York.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 7, 1911, the Justice of Supreme Court, Richmond County, requested an issue of special revenue bonds in the sum of $292, for the payment of increased compensation for two Court Attendants from June 1 to December 31, 1911. In connection therewith I report, as follows:

On June 15, 1911, the Board of Estimate and Apportionment, pursuant to the provisions of section 354 of the Judiciary Law, approved of the action of the Justice in fixing the compensation of two Attendants in his court at $1,200 and $1,800 per annum, respectively. The approval was to be effective as of June 1, 1911. The present compensation of the Attendants is $1,000 and $1,500, respectively. It will be necessary, therefore, to provide $292 for the increases from June 1 to the end of the year.

I recommend the adoption of the attached resolution approving of the issue of special revenue bonds in the necessary amount, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter, and of a schedule for the fund. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the expenditure of a sum not to exceed two hundred and ninety-two dollars ($292) for the increased compensation of one Court Attendant at eighteen hundred dollars ($1,800) per annum, and one Court Attendant at one thousand two hundred dollars ($1,200) per annum, from June 1 to December 31, 1911, in the office of the Supreme Court, Richmond County, and recommends that payment of the same be made by the Comptroller out of the sale of special revenue bonds of The City of New York, issued pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for employees paid from other than budgetary funds in the office of the Supreme Court of Richmond County for the year 1911, to take effect June 1, as follows:

Supreme Court, Richmond County.

Salaries, Revenue Bond Force—

Court Attendant, 1 at	$1,800 00
Court Attendant, 1 at	1,200 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the District Attorney, New York County, relative to, and report of the Comptroller recommending, the approval of the expenditure of $10,842 for the compensation of four additional Assistant District Attorneys, from September 1 to December 31, 1911, and for the purchase of desks and other necessary supplies in the office of said District Attorney, and that payment of same be made from the proceeds of special revenue bonds issued, pursuant to subdivision 7, section 188 of the Charter; also recommending approval of a schedule for the fund:

(On July 6, 1911, the request of the District Attorney of New York County for an appropriation of $12,212 to carry out the provisions of chapters 115 and 516 of the Laws of 1911, providing for additions to the professional and administrative force of his office, was referred to the Comptroller.)

District Attorney's Office, County of New York, June 29, 1911.

To the Honorable, the Board of Estimate and Apportionment, City of New York:

Gentlemen—I have the honor to respectfully request that, pursuant to the provisions of subdivision 7, section 188 of the Greater New York Charter, your honorable Board authorize the Comptroller to issue special revenue bonds to the amount of twelve thousand two hundred and twelve dollars, to be used in making additions to the professional and administrative force of this office and for the purchase of desks and other office supplies, which are actually necessary in order to carry out the provisions of chapters 115 and 516 of the Laws of 1911. The enactment of these laws provides for two additional Stenographers to the Grand Jury, and four Assistant District Attorneys, making a total of three Stenographers to the Grand Jury and increasing the number of statutory Assistant District Attorneys from ten to fourteen.

Owing to the large increase in public business and to obtain means of expediting the work of this office, it was at my request that the above bills were introduced, as it required an act of the Legislature to amend the laws in question in order to secure the desired relief.

The Criminal Courts of New York County, unlike those of adjoining counties, which close during some of the summer months, sit continuously during the entire year, and during the coming months of July, August and September, it will be necessary to have at least three Courts in continuous session. As an illustration of this increase in criminal business, I desire to state that formerly one Grand Jury in continuous session and occasionally a special Grand Jury, was sufficient to dispose of the criminal business of this County, but it now necessitates two Grand Juries in continuous session, and even with their aid, it is impossible at times to cope with the situation. For instance, there have been months when it was essential to have three or four Grand Juries and on one occasion five Grand Juries in session during the past year.

It is quite evident from the foregoing conditions that it is a physical impossibility for one Stenographer to the Grand Jury to be present and take the proceedings of three or more Grand Juries on the same day, and, therefore, in order to relieve this situation and avoid legal complications, it became necessary to increase the number of Grand Jury Stenographers from one to three.

In relation to the qualification of the Stenographer to the Grand Jury, I would state that, in order to fill this position acceptably he must not only be thoroughly trustworthy, but also an expert, with extensive experience, competent to take testimony rapidly and transcribe same with extreme accuracy, and to obtain a Stenographer with these qualifications the compensation to be paid him is $10 per diem while actually engaged in taking testimony before the Grand Jury and fees for copies of testimony furnished to the District Attorney (chapter 348, Laws of 1884.)

It has been customary for your Board to set aside annually an appropriation to provide for the payment of such Stenographer's compensation and fees, which appropriation is merely an estimate, for it is hardly possible for any one to state accurately in advance the number of days the Grand Jury will convene during the year, or the number of Grand Juries that will be required to dispose of the public business during said period.

The following itemized statement shows how it is proposed to expend this appropriation:

Increase of Force.

Salaries.		Amount Required for Four Months, September 1 to December 31, 1911.
Four additional Assistant District Attorneys, at $7,500 each per annum (chapter 516, Laws of 1911)		$10,000 00
Two additional Grand Jury Stenographers (chapter 115, Laws of 1911.) Estimated amount of compensation and fees as follows:		
Stenographer to second Grand Jury (77days), at $10 per diem	$770 00	

Stenographer to third Grand Jury (30 days), at $10 per diem.	300 00	
Estimated amount of fees for both additional Grand Jury Stenographers	300 00	
Total estimated amount of compensation and fees for two additional Grand Jury Stenographers		1,370 00
Total Estimated amount for salaries and fees		$11,370 00

Office Supplies.

4 roll top desks, at $41.50 each	$166 00	
4 revolving office chairs, at $8.50 each	34 00	
4 steel safes, at $100 each	400 00	
2 roll top typewriting desks, at $40 each	80 00	
2 typewriting machines, at $81 each	162 00	
		842 00
Total amount requested for salaries and office supplies		$12,212 00

In view of the facts mentioned, I would respectfully request that your honorable Board grant the appropriation asked for, the same to take effect September 1, 1911.

Very truly yours, CHARLES S. WHITMAN, District Attorney.

Assembly, No. 1740; Chapter 516.

AN ACT to amend chapter four hundred and ten of the laws of eighteen hundred and eighty-two, entitled "An act to consolidate into one act and to declare the special and local laws affecting public interests in The City of New York," relative to assistant District Attorneys in the County of New York.

Became a law June 28, 1911, with the approval of the Governor; passed, three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. Section fifteen hundred and three of chapter four hundred and ten of the laws of eighteen hundred and eighty-two, entitled "An act to consolidate into one act and to declare the special and local laws affecting public interests in The City of New York," as amended by chapter two hundred and ninety-five of the laws of nineteen hundred and ten, is hereby amended to read as follows:

Section 1503. The District Attorney of the County of New York shall receive for his services as such District Attorney a yearly salary of fifteen thousand dollars and shall be paid in equal monthly payments. There shall be fourteen assistant District Attorneys for said county, who shall each receive a yearly salary of seven thousand five hundred dollars. The office is so far local as to require the residence of the District Attorney and his assistants within the County.

Section 2. This act shall take effect immediately.

State of New York, Office of the Secretary of State, ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and the whole of said original law.

Given under my hand and the seal of office of the Secretary of State, at the City of Albany, this thirtieth day of June in the year one thousand nine hundred and eleven. JOSE PIDGEON, Second Deputy Secretary of State.

[SEAL]

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the District Attorney of New York County, requested an issue of special revenue bonds in the amount of $12,212 for the compensation of additional employees and the purchase of desks and other office furniture, pursuant to the provisions of chapter 115 and 516 of the Laws of 1911. In connection therewith I report as follows:

The following itemized statement shows how it is proposed to expend the appropriation:

Increase of Force.

Salaries.		Amount Required for Four Months, September 1 to December 31, 1911.
4 additional assistant District Attorneys, at $7,500 each per annum (chapter 516, Laws of 1911)		$10,000 00
2 additional Grand Jury Stenographers (chapter 115, Laws of 1911.) Estimated amount of compensation and fees as follows:		
Stenographer to second Grand Jury, 77 days, at $10 per diem	$770 00	
Stenographer to third Grand Jury, 30 days, at $10 per diem..	300 00	
Estimated amount of fees for both additional Grand Jury Stenographers	300 00	
Total estimated amount of compensation and fees for two additional Grand Jury Stenographers..	1,370 00	
Total estimated amount for salaries and fees		$11,370 00
Office Supplies.		
4 roll top desks, at $41.50 each	$166 00	
4 revolving office chairs, at $8.50 each	34 00	
4 steel safes, at $100 each	400 00	
2 roll top typewriting desks, at $40 each	80 00	
2 typewriting machines, at $81 each	162 00	
		842 00
Total amount requested for salaries and office supplies		$12,212.00

The District Attorney states the following:

"The appropriation is necessary to carry out the provisions of chapter 115 and 516 of the Laws of 1911. The enactment of these laws provides for two additional Stenographers to the Grand Jury, and four Assistant District Attorneys, making a total of three Stenographers to the Grand Jury and increasing the number of statutory Assistant District Attorneys from ten to fourteen.

"Owing to the large increase in public business and to obtain means of expediting the work of this office, it was at my request that the above bills were introduced, as it required an act of the Legislature to amend the laws in question in order to secure the desired relief.

"The Criminal Courts of New York County, unlike those of adjoining counties which close during some of the summer months, sit continuously during the entire year, and during the coming months of July, August and September it will be necessary to have at least three Courts in continuous session. As an illustration of this increase in criminal business, I desire to state that formerly one Grand Jury in continuous session and occassionally a special Grand Jury, was sufficient to dispose of the criminal business of this County, but it now necessitates two Grand Juries in continuous session, and even with their aid it is impossible at times to cope with the situation. For instance, there have been months when it was essential to have three or four Grand Juries and on one occasion five Grand Juries in session during the past year."

As the grade of position of Stenographer to the Grand Jury, at $10 per diem, has not been established, pursuant to the provisions of section 56 of the Greater New York Charter, no action can be taken at this time on this item in the request.

It is proposed to appoint the four additional Assistant District Attorneys on September 1, 1911. To provide for their compensation from September 1 to December 31, 1911, the sum of $10,000 will be required. The estimate of $842 for desks and other office furniture makes necessary a total of $10,842.

I recommend adoption of the attached resolutions approving the request to the extent of $10,842, and a schedule for the fund. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the expenditure of ten thousand eight hundred and forty-two dollars ($10,842), for the compensation of four additional Assistant District Attorneys, from September 1 to December 31, 1911, and the purchase of desks and other necessary supplies in the office of the District Attorney, New York County, and recommends that payment of the same be made by the Comptroller out of the sale of special revenue bonds of The City of New York, issued pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for employees paid from other than budgetary funds in the office of the District Attorney, New York County, for the year 1911, to take effect September 1, as follows:

District Attorney, County of New York—

Salaries, Revenue Bond Force:

Assistant District Attorneys, 4 at	$7,500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Public Service Commission, for the First District, relative to, and report of the Comptroller recommending, that the resolution adopted October 30, 1908, which authorized the issue of $160,000 corporate stock for the purchase of property 239 and 241 Canal street and 157-163 Centre street, Manhattan, and for interest and incidental expenses in connection therewith for the construction and operation of the Brooklyn Loop Lines, be rescinded, and that the Board authorize a new issue of corporate stock in the sum of $160,000 for the acquisition of real estate or interest therein necessary for the construction and operation of the Brooklyn Loop Lines, Borough of Manhattan:

(On June 15, 1911, a communication from the Public Service Commission requesting that the resolution of October 30, 1908, be amended by making the amount authorized available generally for the payment of the expenses of the acquisition of property for the Brooklyn Loop Lines, was referred to the Comptroller.)

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, June 12, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District on October 16, 1907, made requisition upon the then Board of Estimate and Apportionment of The City of New York for the authorization of corporate stock of The City of New York to be sold by the Comptroller in the amount of one million dollars ($1,000,000), to pay the expense of the acquisition of real estate or of interests therein necessary for the construction and operation of the Rapid Transit Subway Railroad known as the Brooklyn Loop Lines in Manhattan, running under Centre street, with connections to Manhattan Bridge by way of Canal street and to Williamsburg Bridge by way of Delancey street. Pursuant to this requisition your honorable Board and your predecessor have authorized the issue of corporate stock to the amount of four hundred and forty-eight thousand eight hundred and fifty-five dollars ($448,855), to pay the expense of the acquisition of such real estate or interests therein and have also authorized the issue of corporate stock to an additional amount of five hundred and fifty-one thousand one hundred and forty-five dollars ($551,145), for the purchase of specific parcels of property necessary for the purposes of the said Brooklyn Loop Lines or for the payment of interest on the purchase price thereof. On December 23, 1910, this Commission made requisition for a further amount of corporate stock, to wit: The sum of one million eight hundred and fifty thousand dollars ($1,850,000), for the same purposes specified in its requisition of October 16, 1907, and pursuant thereto your honorable Board authorized the issue of corporate stock to the amount of one million two hundred thousand dollars ($1,200,000) for those purposes.

The total amount, therefore, appropriated to pay the expense of the acquisition of any real estate or interests therein necessary for the said Brooklyn Loop Lines, excluding the appropriations above mentioned made for the purchase of specific parcels of property or payment of interest on the purchase price thereof, is one million six hundred and forty-eight thousand eight hundred and fifty-five dollars ($1,648,855). Of this amount the sum of fifty thousand five hundred and seventy-one dollars and fifty-seven cents ($50,571.57) was expended up to May 31, 1911, for general expenses, such as fees of Commissioners of Appraisal, advertising, searches and appraisals, clerical expenses and special services, and the sum of one million five hundred and seventy-one thousand eight hundred and eighty-five dollars and ten cents ($1,571,885.10) was expended up to May 31, 1911, to pay awards for property condemned, with interest, leaving a balance now available of twenty-six thousand three hundred and ninety-eight dollars and thirty-three cents ($26,398.33.) This balance, however, does not include premiums realized from the sale of corporate stock.

An award for the sum of one hundred and sixty-five thousand dollars ($165,000) has been made and confirmed for property at the intersection of Centre and Lafayette streets, acquired by condemnation for the said Brooklyn Loop lines and is now due and payable with interest from July 22, 1908, the date when title vested in the City; but there are not sufficient funds available to pay it. Included in the sum of five hundred and fifty-one thousand one hundred and forty-five dollars ($551,145) appropriated, pursuant to the Commission's requisition of October 16, 1907, for the purchase of specific parcels of property or payment of interest on the purchase price thereof, however, is an item of one hundred and sixty thousand dollars ($160,000), appropriated on October 30, 1908, for the purchase at private sale of the property 239-241 Canal street and 157-163 Centre street. This sum has never been expended as the City did not have funds available to pay the purchase price of this property at the time title was to be closed under the contract and the owners of the property refused to keep the contract open any longer. The Commission, therefore, being unable to complete the purchase of this property was compelled to condemn it, and the voucher sent to the Comptroller for the payment of the purchase price was cancelled and withdrawn. An award was subsequently made for this property, but as the sum appropriated for its purchase was not sufficient to cover the amount of the award, with interest, payment was made out of the funds available generally for the acquisition of real estate for the said Brooklyn Loop Lines. Accordingly there now remains unissued in the account for this property corporate stock to the amount of one hundred and sixty thousand dollars ($160,000), which could be made available for the purpose of paying the award for the property at the intersection of Centre and Lafayette streets, with interest, any balance to be available for paying other expenses connected with the acquisition of real estate or interests therein for the said Brooklyn Loop Lines.

The Public Service Commission for the First District accordingly requests your Honorable Board to modify your resolutions of October 30, 1908, authorizing the issue of corporate stock by the Comptroller to an amount not exceeding one hundred and sixty thousand dollars ($160,000), to provide means for the purchase of the said property 239-241 Canal street and 157-163 Centre street, and of any award which might be made in the proceedings, together with interest thereon and examination of title to the said premises, so as to make the said sum of one hundred and sixty thousand dollars ($160,000) available generally for the payment of the expense of the acquisition of any real estate or interests therein necessary for the construction or operation of the said Brooklyn Loop Lines.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by WM. WILLCOX, Chairman; TRAVIS WHITNEY, Secretary.

[SEAL]

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1911, the Public Service Commission for the First District, requested that a resolution adopted by the Board of Estimate and Apportionment October 30, 1908, authorizing $160,000 in corporate stock for the purchase of property 239-241 Canal street and 157-163 Centre street, Manhattan, and for payment of any award which might be made in the proceedings, etc., be amended to make the authorization available generally for the payment of the expense of acquiring any real estate or interest therein necessary for the construction or operation of the Brooklyn loop lines. In connection therewith I report as follows:

The $160,000 was found to be inadequate, and for that reason all expense incurred in acquiring the properties were paid out of the general fund.

The $160,000 authorization, therefore, remains unissued.

The request is made so that the amount may be available generally for the payment of the expenses of the acquisition of any real estate or interests therein, necessary for the construction or operation of the Brooklyn loop lines.

I recommend the adoption of the attached resolutions granting the request by rescindment of the original resolution and a new authorization for the proper purposes.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment October 30, 1908, as follows:

"Resolved, That, pursuant to the provisions of section 10, chapter 4 of the Laws of 1891, as amended, and section 14, chapter 429 of the Laws of 1907, and a requisition of the Public Service Commission for the First District, duly made by the Chairman and Secretary thereof on October 16, 1907, for an appropriation of one million dollars ($1,000,000), for the acquisition of real estate or interest therein, necessary for the construction and operation of the rapid transit railroad known as the Brooklyn Loop Lines, Borough of Manhattan, and a supplemental requisition, under date of October 26, 1908, for an issue of one hundred and fifty-seven thousand seven hundred and ninety dollars ($157,790), for said purposes, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, on account of said requisitions (and in addition to the amounts heretofore authorized, viz., $40,000 on December 20, 1907; $166,145 on June 5, 1908, and $175,000 on June 12 1908) to an amount not exceeding one hundred and sixty thousand dollars ($160,000), to provide means for the following:

For the purchase of all right, title and interest in and to property known as 239 and 241 Canal street and 157, 159, 161 and 163 Centre street, Manhattan, and to any award which may be made in the proceedings.	$155,000 00
For interest thereon from August 22, 1908, to December 10, 1908......	2,790 00
For examination of title to above premises..........................	2,210 00
	$160,000 00

—be and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of chapter 4, Laws of 1891, as amended, and section 14, chapter 429, Laws of 1907, and a requisition of the Public Service Commission for the First District, duly made by the Chairman and Secretary thereof, on June 12, 1911, for an appropriation of one hundred and sixty thousand dollars ($160,000), for the acquisition of real estate or interest therein necessary for the construction and operation of the rapid transit railroad known as the Brooklyn Loop Lines, Borough of Manhattan, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York on account of said requisition to an amount not exceeding one hundred and sixty thousand dollars ($160.000), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting, and report of the Comptroller recommending, an issue of $6,000 special revenue bonds (subdivision 8, section 188 of the Charter) for the purpose of purchasing street flushing machines for the use of the Bureau of Street Cleaning, office of the President of the Borough of Richmond:

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of six thousand dollars ($6,000), the proceeds whereof to be used by the President, Borough of Richmond, for the purpose of purchasing street flushing machines for use of Bureau of Street Cleaning, Borough of Richmond.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of $6,000, for the purchase by the President of the Borough of Richmond of flushing machines, for use by the Bureau of Street Cleaning in his office. In connection therewith I report as follows:

The President states that owing to the raising of dust, it has been necessary to dispense with machine street sweeping, and that the hand brooms now being used do not clean the streets as thoroughly as is desired, particularly during the hot weather. It is stated that flushing by machine, following sweeping, will cleanse the streets properly.

The following table shows the areas of pavements in charge of the Street Cleaning Bureau in Richmond:

	Mileage.	Square Yards.
Granite block	5.9	108,465
Medina block	.2	4,524
Sheet asphalt	.5	6,409
Block asphalt	9.5	186,843
Wood block	1.3	27,483
Iron slag block	1.9	40,166
Vitrified brick	4.2	82,087
Bituminous concrete	2.7	53,333
Oil concrete	.1	2,200
Bituminous macadam	5.3	68,305
Macadam	102.9	1,032,190
	134.5	1,612,005

It is stated by the President that the sewers in the Borough are protected with catch basins to permit of street flushing.

I recommend the approval of the request by the adoption of the attached resolution.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds in the sum of six thousand dollars ($6,000), the proceeds whereof to be used by the President of the Borough of Richmond for the purpose of purchasing street flushing machines for use of the Bureau of Street Cleaning, Borough of Richmond, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding six thousand dollars ($6,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Mayor's office notifying the Secretary of the appointment of the Board of Inebriety (chapter 551, Laws of 1910):

Which was ordered printed in the Minutes and filed.

City of New York, Office of the Mayor, July 13, 1911.

JOSEPH HAAG, Esq., *Secretary of the Board of Estimate and Apportionment:*

Sir—I am directed by the Mayor to inform you that the following have been appointed members of the Board of Inebriety: Dr. William Browning, 54 Lefferts place, Brooklyn; Dr. John Dorning, 124 W. 81st street, Manhattan; Rev. Dr. William

Morrison, Rector of All Saints' Protestant Episcopal Church, Brooklyn; the Very Rev. John J. Hughes, Superior of the Paulist Fathers in Manhattan.

The Mayor also appointed Thomas J. Colton as President of the Board. The Commissioner of Charities and the Commissioner of Correction are also by law members of the Board. Very truly yours,

ROBERT ADAMSON, Secretary.

The Secretary presented a communication from the Secretary of the Board of Education, transmitting certified copy of resolution adopted by said Board relative to awarding contracts for pianos for use in public schools to other than the lowest bidders.

Which was referred to the Comptroller.

The Secretary presented a communication from the Commissioner of Water Supply, Gas and Electricity, submitting for approval proposed form of contract with the Urban Water Supply Company for furnishing a supply of water for the use of the Borough of Queens stating that the contract had been drawn along the lines suggested by the committee, consisting of the Comptroller and Chief Engineer of the Board, which recently reported on the acquisition by the City of private water companies.

Which was referred to the Comptroller and the Chief Engineer of the Board.

The Secretary presented a communication from the Secretary of the Board of Education transmitting certified copy of resolution adopted by said Board relative to fixing the compensation of Janitors of Public School No. 114, Manhattan, and Public School No. 58, Queens.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

The Secretary presented communications (2) relative to additional rapid transit railways, as follows:

From C. Augustus Haviland, of No. 902 Fulton street, Brooklyn, favoring the construction and operation of subways by the City.

From the Farmers and Taxpayers' Association of the Third Ward, Borough of Queens, requesting that the contract for the extension of the rapid transit system into Queens on the north side of Long Island be given to the Interborough Rapid Transit Company.

Which was referred to the Committee of the Whole.

The Secretary presented a report of the Comptroller, returning for filing communication from the President of the Borough of The Bronx, requesting that the resolution adopted March 16, 1911, recommending the establishment of the grade of Clerk at $300 per annum, be amended by making the salary effective from February 17, 1911, as said request has been withdrawn.

Which was ordered filed, and the Secretary directed to return the communication referred to therein to the President of the Borough of The Bronx.

(On May 25, 1911, the above request was referred to the Committee on Salaries and Grades.)

The President of the Board of Aldermen offered the following resolution:

Resolved, That all Boards, Departments, Bureaus, Commissions or Offices of the City or County governments, authorized by this Board to incur obligations and execute contracts payable out of corporate stock, be and they hereby are directed to submit to this Board for its approval, plans, specifications and estimates of cost, prior to advertising for bids upon public works, funds for which may be authorized in the Corporate Stock Budget now before this Board, except that during the months of August and September such plans, specifications and estimates shall be submitted to the Comptroller for his approval.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Comptroller, on behalf of the Corporate Stock Budget Committee, consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan, presented the report of said Committee, as follows:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In connection with our reports upon requests of the various departments and offices for corporate stock to be authorized in the year 1911, we submit the following statement which shows the effect the adoption of our recommendations will have upon the borrowing power of the City, and which also expresses our attitude concerning several improvements which we believe are desirable, but which we have not included in our recommendations for immediate authorizations of corporate stock.

The total of entirely new authorizations and additions to existing authorizations of corporate stock which we have recommended is $45,807,818.23. We have recommended rescindments amounting to $647,272.41, which will make the net amount of new indebtedness $45,160,545.82. Not all of this amount will be an addition to the debt, because items aggregating $7,432,638.29, now recommended for authorization, are to wipe out indebtedness included in the debt statement of December 31, 1910.

When this is subtracted from the net amount of new indebtedness, there is left $37,727,907.53 as an additional charge against the borrowing power of the City.

This amount can be still further reduced by rescindments of existing authorizations against which there is little or no liability. However, we have thought it best to rescind at this time only such authorizations as the work of reconciliation has shown to have no further obligations against them.

Our recommendations for the various departments are shown in the following summary:

Department.	Authorizations.	Rescindments.
President, Borough of Manhattan	$4,590,000 00	$148,125 00
President, Borough of Bronx	1,000,000 00	45,635 00
President, Borough of Brooklyn	835,000 00	18,010 68
President, Borough of Queens	1,014,600 00	2,386 00
President, Borough of Richmond	525,500 00	
Education	10,381,809 00	4,228 01
Docks and Ferries	7,102,901 29	
Bridges	2,315,000 00	
Fire	1,994,225 94	115,420 68
Charities	2,964,000 00	100,334 67
Parks, Manhattan and Richmond	1,694,000 00	100,000 00
Parks, Brooklyn and Queens	1,256,802 00	97,000 00
Parks, Bronx	408,800 00	
Health	1,000,000 00	
Bellevue and Allied Hospitals	2,469,500 00	
Police	600,000 00	
Correction	100,000 00	
Carnegie Library sites	171,000 00	
Normal College	91,380 00	
Brooklyn Disciplinary School	75,000 00	
Street Cleaning	20,000 00	15,632 37
Commissions and Commissioners	27,300 00	500 00
Metropolitan Sewerage Commission	34,000 00	
Commissioner of Records, New York County	25,000 00	
Surrogate and County Clerk, Queens	100,000 00	
Finance and Miscellaneous	5,012,000 00	*
Total authorizations	$45,807,818 23	$647,272 41

*$5,000,000 of the authorization for Finance and Miscellaneous is a release of a part of the previous authorization of $33,000,000 for the funding of uncollectible taxes. However, it is a new addition to the debt.

If all of these recommended authorizations are made, the City will still be able to build rapid transit subways and have ample margin left for other work that may have to be done.

A statement estimating the constitutional borrowing capacity of The City of New York as at July 5, 1911, shows that the margin of legal borrowing capacity is $159,300,978.07. Of this amount, $60,482,725.18 is available for rapid transit purposes only. This sum is made up as follows:

Manhattan-Bronx Rapid Transit bonds, exempted	$43,868,325 18
Brooklyn-Manhattan Rapid Transit bonds, to be exempted	3,614,400 00
Amount set aside by resolution of April 8, 1910, for additional rapid transit railroads	13,000,000 00
	$60,482,725 18

This leaves a margin of $98,818,252.89 for such purposes as the Board of Estimate and Apportionment may determine, including rapid transit railroads, should the Board so desire.

Even if it is assumed that $80,000,000 will be used for subway construction this year, there will be left the sum of $79,300,978.07. After subtracting from this remainder the sum of the new authorizations we have recommended, there will remain a margin of $41,573,070.54.

This margin may be reduced to the extent of approximately $11,000,000 by the necessary provision for extra work on the Manhattan-Bronx division of the existing subway, for which $2,260,000 has been allowed in a tentative agreement, and for four other improvements for which no provision has been recommended, which were alluded to in the first paragraph of this report. Whatever amount is authorized for paying claims for extra work on the Manhattan-Bronx division will be only a temporary charge against the debt margin, and as soon as the bonds for this work can be exempted, the probable additional charge of $11,000,000 will be reduced to approximately $9,000,000.

The four improvements which we believe should be provided for (but not until the City has procured satisfactory data upon which to base its action), are as follows:

First—A site for a new court house, New York County. Your Committee believes that a site should be procured at the earliest possible moment, but it is not able, at this time, to make any definite recommendation.

We recommend that this matter be referred back to the Committee on Court House Site, with instructions that the Committee report to this Board at the meeting July 27, 1911.

Second—Rockaway Park. We are convinced that the City should acquire land for a park at Rockaway at a time when it can be procured at a reasonable figure. We are not yet assured that the property available at Rockaway can be secured at a reasonable figure.

We recommend that this matter be referred back to the Committee on Rockaway Park, consisting of the President of the Board of Aldermen, the Comptroller, President of the Borough of Manhattan and the President of the Borough of Queens, with instructions to report to this Board at the meeting July 27, 1911.

Third—The proposed park at Coney Island, on the area burned over at the time of the Dreamland fire.

Additional park facilities should be provided at Coney Island, and we are of the opinion that the property recently burned over can be obtained now at a lower figure than at any time in the future. However, we believe that the City should have absolute assurance of a fair price before it is committed to the purchase of this property.

We recommend that this matter be referred back to the Committee consisting of the President of the Borough of Brooklyn, the Comptroller and the President of the Board of Aldermen, with instructions to report to this Board at the meeting of July 27, 1911.

Fourth—Proposed terminal of the Manhattan end of the Brooklyn Bridge, in connection with the new Municipal Building.

This matter, we believe, deserves attention. The former Commissioner of Bridges requested $2,500,000 for this work.

We recommend that the Secretary of the Board of Estimate and Apportionment be directed to send a copy of this report to the present Commissioner of Bridges, with the request that he transmit to this Board, before its meeting of July 27, 1911, a complete statement, giving detailed figures of architects and engineers, also opinions of experts on the possibility of any other than all motor car trains to operate on the steep grade that is proposed for the terminal.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Committee on Corporate Stock Budget.

Summary.

Total authorizations	$45,807,818 23
Rescindments	647,272 41
Net amount of new authorizations	$45,160,545 82
Amount not chargeable against debt margin	7,432,638 29
Total additional charge against borrowing power	$37,727,907 53
Borrowing capacity July 5, 1911	$159,300,978 07
Amount available for rapid transit purposes only	60,482,725 18
Amount available for any purposes	$98,818,252 89
Amount that will be left available if Budget is adopted as recommended, not including $60,482,725.18 available for rapid transit purposes only	$61,090,345 36
Total amount that will be left available, all of which can be used for rapid transit purposes and $61,090,345.36 of which can be used for any purpose	$121,573,070 54
Debt margin left if $80,000,000 is used for subways this year	$41,573,070 54

Pursuant to the recommendations contained in the above report, the matter of the new Court House for New York County was referred to the Committee consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan, with instructions to report to the Board at the meeting to be held July 27, 1911.

The matter of a Seaside Park at Rockaway Beach was referred to the Committee consisting of the President of the Board of Aldermen, the Comptroller and the Presidents of the Boroughs of Manhattan and Queens, with instructions to report to the Board at the meeting to be held July 27.

The matter of additional park facilities at Coney Island was referred to the Committee consisting of the President of the Board of Aldermen, the Comptroller and the President of the Borough of Brooklyn, with instructions to report to the Board at the meeting to be held July 27; and

The Secretary was directed to tranmit a copy of the report of the Corporate Stock Budget Committee to the Commissioner of Bridges, with the request that said Commissioner transmit to the Board before its meeting on July 27 a complete statement giving detailed figures of architects and engineers, and opinions of experts on the possibility of any other than all motor car trains operating on the steep grade that is proposed for the terminal at the Manhattan end of the Brooklyn Bridge in connection with the new Municipal Building.

The Corporate Stock Budget was then considered in the following order:

THE PRESIDENT OF THE BOROUGH OF MANHATTAN.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the request made by the President of the Borough of Manhattan for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the three schedules, A, B and C, included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule A—New Authorizations.

Asphalt Repair Plant, Bureau of Highways	$200,000 00
Children's Court Site, First Division, Borough of Manhattan	165,000 00
Erection of a New Building for Children's Court, First Division, Borough of Manhattan (including Architects' fees)	150,000 00
New Comfort Station, Borough of Manhattan (including Architects' fees)	50,000 00
New Public Baths, Borough of Manhattan	250,000 00
Installation of Pools in Existing Baths, Borough of Manhattan	100,000 00
Extension of 7th Avenue, in the Borough of Manhattan	3,000,000 00
Borough Repair Shops, Bureau of Highways	65,000 00
New Corporation Yard, Bureau of Highways	20,000 00
	$4,000,000 00

Schedule B—Additions to Existing Authorizations.

Repairing Streets, Borough of Manhattan	$500,000 00
Reconstruction of Sewers, Borough of Manhattan	50,000 00
Topographical Bureau, Completion of Borough Map	40,000 00
	$590,000 00
Total Authorizations, Schedules A and B	$4,590,000 00

Schedule C—Rescindments.

Original resolution adopted by Board of Estimate and Apportionment December 3, 1909; concurred in by Board of Aldermen December 21, 1909.

Code No.	Title of Account.	Original Resolution.	Amended Resolution.	Amount Rescinded.
C-PM-13A.	Erection of a New Building for Children's Court, First Division, at 11th Street and 3d Avenue, Including Architects' Fees	$150,000 00	$1,875 00	$148,125 00

We recommend the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the construction and equipment of an asphalt repair plant, Bureau of Highways, in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and sixty-five thousand dollars ($165,000), to provide means for the purchase of a site for the Children's Court, First Division, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and fifty thousand dollars ($150,000), to provide means for the erection of a new building for Children's Court, First Division, including Architects' fees Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the construction and equipment of new comfort stations, including Architects' fees, in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and fifty thousand dollars ($250,000), to provide means for the construction of new public baths in the Borough of Manhattan, and contingent expenses thereon, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the Installation of pools in existing baths, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three million dollars ($3,000,000), to provide means for the extension of 7th avenue, and the widening and extension of Varick street, in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding sixty-five thousand dollars ($65,000), to provide means for the construction and equipment of a Borough repair shop for the use of the Commissioner of Public Works in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the construction and equipment of a new corporation yard for the use of the Commissioner of Public Works in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five hundred thousand dollars ($500,000), to provide means for repaving streets, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for reconstruction of sewers, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty thousand dollars ($40,000), to provide means for the completion of Borough map, Topographical Bureau, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution, adopted by the Board of Estimate and Apportionment December 3, 1909, and concurred in by the Board of Aldermen December 21, 1909,

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and fifty thousand dollars ($150,000), to provide means for the erection of a new building at 11th street and 3d avenue, Borough of Manhattan (including architect's fees), for the use of Children's Court, First Division, and when authority therefor shall have been obtained from the Board of Aldermen the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and fifty thousand dollars ($150,000), the proceeds whereof to be applied to the purpose aforesaid."

—be and the same is hereby amended to make the amount read one thousand eight hundred and seventy-five dollars ($1,875).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

THE PRESIDENT OF THE BOROUGH OF THE BRONX.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of the President of the Borough of The Bronx for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the three schedules, "A," "B" and "C," included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A."

For the improvement of the junction of 3d avenue and Boston road	$4,000 00
Transverse road at 161st street	230,000 00
Planting trees on Grand boulevard and concourse	50,000 00
Regulating, grading and paving 165th street	12,000 00
Public comfort stations	25,000 00
Bridge over New York and Harlem, New York, New Haven and Hartford Railroad, and the Bronx River	30,000 00
	$351,000 00

Schedule "B."

C-PX-48.	Repaving streets	$231,000 00
C-PX-28.	Topographical Bureau	85,000 00
C-PX-25.	Drainage plans	8,000 00
C-PX-16.	Completing Bronx Court House	325,000 00
		$649,000 00

Schedule "C."

C-PX- 2.	Amend resolution of the Board of Estimate and Apportionment adopted March 16, 1906, providing for the construction of the Belmont avenue sewer, to read $10,500, instead of $12,000, thereby rescinding the amount of	$1,500 00
C-PX-24.	Amend resolution of the Board of Estimate and Apportionment adopted June 3, 1910, providing for the construction of the Webster avenue relief sewer, to read $24,500, instead of $42,500, thereby rescinding the amount of	18,000 00
C-PX-25.	Amend resolution of the Board of Estimate and Apportionment adopted December 10, 1909, and finally concurred in by the Board of Aldermen on March 22, 1910, providing funds for the preparation of drainage and sewerage district plans for 1910, to read $11,115, instead of $15,000, thereby rescinding the amount of	3,885 00
C-PX-26.	Rescind resolution of the Board of Estimate and Apportionment adopted November 24, 1905, and finally concurred in by the Board of Aldermen on December 19, 1905, providing for the erection of a drinking fountain at Boston road and Prospect avenue, thereby rescinding the amount of	650 00
C-PX-33.	Rescind resolution of the Board of Estimate and Apportionment adopted June 3, 1910, and finally concurred in by the Board of Aldermen on July 19, 1910, providing for the improvement of the junction of Franklin and 3d avenues, thereby rescinding the amount of	2,000 00
C-PX-19.	Amend resolution adopted by the Board of Estimate and Apportionment adopted March 16, 1905, and finally concurred in by the Board of Aldermen on May 9, 1905, providing for the construction of a highway bridge across the Bronx River, connecting Becker avenue in the Bronx with Wakefield avenue, Yonkers, to read $1,000, instead of $20,000, thereby rescinding the amount of	19,000 00

C-PX-41. Rescind resolution adopted by the Board of Estimate adopted June 3, 1910, and finally concurred in by the Board of Aldermen on July 19, 1910, which provided, by amendment, for funds with which to sod plots on Prospect avenue, thereby rescinding the amount of..................	600 00
	$45,635 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four thousand dollars ($4,000), to provide means for the improvement of the junction of 3d avenue and Boston road, in the Borough of The Bronx , and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 176 of the Greater New York Charter, the Board of Estimate and Apportionment hereby determines that the whole cost and expense of the construction of transverse road in connection with the Grand boulevard and concourse, in the Borough of The Bronx, to wit, 161st street, shall be borne and paid by The City of New York; and be it further

Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue corporate stock of The City of New York to an amount not exceeding two hundred and thirty thousand dollars ($230,000), for the purpose of providing means to meet the cost and expense of the construction of said transverse road as set forth in the foregoing resolution.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for purchase of and planting trees on the Grand boulevard and concourse, in the Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 176 of the Greater New York Charter, the Board of Estimate and Apportionment hereby determines that the whole cost and expense of regulating and grading the central portion of East 165th street from a point about eighty feet east of Sherman avenue to a point about seventy-seven feet west of Walton avenue, shall be borne and paid by The City of New York; and be it further

Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Comptroller is authorized to issue corporate stock of The City of New York to an amount not exceeding twelve thousand dollars ($12,000), for the purpose of providing means to meet the cost of regulating and grading said street as set forth in the foregoing resolution.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the construction of a public comfort station at 138th street and 3d avenue, in the Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000), to provide means for the City's share of the cost of constructing a highway bridge across the Bronx River, over the tracks of the New York and Harlem Railroad and the New York, New Haven and Hartford Railroad at East 241st street, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and thirty-one thousand dollars ($231,000), for the purpose of providing means for the repaving of streets and avenues in the Borough of The Bronx—provided, however, that no contract shall be made for repaving any street or avenue unless the Borough President having charge thereof submits to the Comptroller with such contract evidence showing that the original pavement on such street or avenue was laid at the expense of the abutting property owners or by local taxation or by bond issues paid by the locality before consolidation, unless the Board of Estimate and Apportionment shall otherwise determine upon presentation of the facts and circumstances affecting such street or avenue, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding two hundred and thirty-one thousand dollars ($231,000), the proceeds thereof to the amount of the par value of the stock to be applied to the purpose aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eighty-five thousand dollars ($85,000), in addition to amounts heretofore authorized, to provide means for the use of the Topographical Bureau of the Borough of The Bronx, for the purpose of preparing and completing maps of all territory within said Borough, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eight thousand dollars ($8,000), in addition to amounts heretofore authorized to provide means for the preparation of drainage and sewerage district plans in the Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and twenty-five thousand dollars ($325,000), in addition to amounts heretofore authorized, to provide means for the construction and equipment of a Court House in the Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, the following resolution adopted by the Board of Estimate and Apportionment March 16, 1906:

> "Resolved, That the Board of Estimate and Apportionment hereby determines that the whole cost and expense of extending the existing Belmont avenue sewer north of Pelham avenue to the southerly line of Bronx Park, west of Southern boulevard, and for improving the drainage conditions surrounding the new Fordham Hospital, Borough of The Bronx, shall be borne and paid by The City of New York."
>
> "Resolved, That, in pursuance of the provisions of sections 169 and 176 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue corporate stock of The City of New York to an amount not exceeding twelve thousand dollars ($12,000), for the purpose of providing means for the extension of the existing Belmont avenue sewer north of Pelham avenue to the southerly line

of Bronx Park, west of Southern boulevard, and for improving drainage conditions surrounding the new Fordham Hospital, Borough of The Bronx."

—be amended to make the amount authorized ten thousand five hundred dollars ($10,500).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the following resolution of the Board of Estimate and Apportionment, adopted June 3, 1910:

"Resolved, That, pursuant to the provisions of sections 169 and 176 of the Greater New York Charter, the Board of Estimate and Apportionment hereby authorizes the Comptroller to issue corporate stock of The City of New York to an amount not exceeding forty-two thousand five hundred dollars ($42,500), in addition to the amount heretofore authorized, to provide the necessary means for the payment of expenses incurred or to be incurred by reason of the construction of the Webster avenue storm relief sewer, in the Borough of The Bronx."

—be amended to make the amount authorized twenty-four thousand five hundred dollars ($24,500).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on December 10, 1909, and finally concurred in by the Board of Aldermen on March 22, 1910:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding the sum of fifteen thousand dollars ($15,000), to provide means for the preparation of drainage and sewerage district plans for the Borough of The Bronx for the year 1910, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding fifteen thousand dollars ($15,000), the proceeds whereof to be applied to the purpose aforesaid."

—be amended to make the amount authorized eleven thousand one hundred and fifteen dollars ($11,115).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on November 24, 1905, and finally concurred in by the Board of Aldermen on December 19, 1905, be and the same is hereby rescinded:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six hundred and fifty dollars ($650), for the purpose of providing means for the erection of a drinking fountain at the junction of Boston road and Prospect avenue, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding six hundred and fifty dollars ($650), the proceeds whereof to be applied to the purposes aforesaid."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Alder-

men and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and finally concurred in by the Board of Aldermen on July 19, 1910, be and the same is hereby rescinded:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not to exceed two thousand dollars ($2,000), (in addition to the amount heretofore authorized), to provide means for improving the junction of Franklin avenue and 3d avenue, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding two thousand dollars ($2,000), the proceeds whereof to be applied to the purpose aforesaid."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on March 16, 1905, and finally concurred in by the Board of Aldermen on May 9, 1905:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the City's share of the cost of constructing a highway bridge across the Bronx River, connecting Becker avenue in The Bronx with Wakefield avenue in Yonkers, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding twenty thousand dollars ($20,000), the proceeds whereof to be applied to the purpose aforesaid."

—be amended to make the amount authorized one thousand dollars ($1,000).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and finally concurred in by the Board of Aldermen on July 19, 1910:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars ($6,000), for the purpose of providing means for top soiling centre plots on Prospect avenue, between East 149th street and Crotona Park, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding six thousand dollars ($6,000), the proceeds whereof to be applied to the purposes aforesaid."

—be amended to make the amount authorized five thousand four hundred dollars ($5,400).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The President of the Borough of The Bronx urged the necessity of appropriations of corporate stock, as follows:

$25,000 for the preparation of plans for a new Municipal Building in the Borough of The Bronx;

$8,000 for the reconstruction of sewers in Westchester avenue, 3d and Brooke avenues, The Bronx;

$500,000 for a viaduct to connect Central Bridge with the southerly end of the Concourse, The Bronx.

These matters were referred to the Corporate Stock Budget Committee for special report thereon.

THE PRESIDENT OF THE BOROUGH OF BROOKLYN.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the President of the Borough of Brooklyn for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the three Schedules A, B and C, included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A," New Authorizations.	
Two Public Comfort Stations	$50,000 00
Public Market, Eighth Ward	500,000 00
Schedule "B," Additions to Existing Authorizations.	
Fund for Topographical Bureau	$35.000 00
Repaving streets, Borough of Brooklyn	250,000 00
	$835,000 00
Schedule "C," Rescindments.	
Central Library Building, Erection of	$6,174 18
Central Library Building. Plans and Specifications	11,836 50
	$18,010 68

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the construction and equipment of new public comfort stations, including architect's fees, in the Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding

thirty-five thousand dollars ($35,000), to provide means for the "Fund for Topographical Bureau," Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and fifty thousand dollars ($250,000), to provide means for repaving streets, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The matter of an appropriation of $500,000 corporate stock for the new Municipal Building for the Borough of Brooklyn or for the Eighth Ward Market, Borough of Brooklyn, was referred back to the Corporate Stock Budget Committee.

Central Library Building, Borough of Brooklyn.

Action on the two resolutions, under the heading "Schedule 'C,' Rescindments," in the report of the Corporate Stock Budget Committee, for the President of the Borough of Brooklyn, one amending resolution adopted by the Board May 25, 1906, concurred in by the Board of Aldermen June 8, 1906, authorizing $25,000 corporate stock for preliminary plans, etc., for the erection of a Central Library Building, Brooklyn, by striking therefrom said amount and inserting in lieu thereof the figures $18,825.82; and the other amending resolution adopted by the Board June 3, 1910, and concurred in by the Board of Aldermen June 28, 1910, authorizing $300,000 corporate stock "to enable the President of the Borough of Brooklyn to enter into a contract for final plans and specifications, etc., for a Central Library Building, Brooklyn," by striking therefrom said amount and inserting in lieu thereof the figures $288,163.50, was deferred and the matter referred back to the Committee for its recommendation.

William A. White appeared in opposition to an appropriation being made for the building on its present site, and James W. Devoy appeared in favor.

THE PRESIDENT OF THE BOROUGH OF QUEENS.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the President of the Borough of Queens for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the three schedules A, B and C included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A"—New Authorizations.

Concrete sea wall, Willetts Point road, Third Ward	$35,000 00
Concrete wing wall, repairing and extending rip-rap on Jackson avenue, between Shell road and Flushing Bridge, Second Ward	5,000 00
Concrete culvert to replace bridge at Norton's Creek, Edgemere, Fifth Ward	30,000 00
Concrete retaining wall, Shore road, between Hoyt and Woolsey avenues, First Ward	20,000 00
Bureau of Street Cleaning, new stock or plant, Rockaway, Fifth Ward, and Ridgewood, Second Ward ($101,600 for Rockaway; $202,000 for Ridgewood)	303,600 00
For interior public bath, Ridgewood, Second Ward	25,000 00
For public comfort station, Ridgewood, Second Ward	9,000 00

Schedule "B"—Additions to Existing Authorizations.

Fund for Topographical Bureau	184,000 00
Repairing streets	400,000 00
Public comfort station, Bridge Plaza	3,000 00

Schedule "C"—Rescindments.

C-PQ-12. Bureau of Street Cleaning, new stock or plant	2,386 00

We recommend the adoption of the attached resolutions.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for the construction of a concrete sea wall on the Willetts Point road, Third Ward, Borough of Queens, beginning at a point 650 feet west of Bell avenue, and extending to a point 2,050 feet westerly therefrom, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for the construction of a concrete wing wall along culverts and repairing and extending the rip-rap on Jackson avenue, between Shell road and the Flushing Bridge, Second Ward, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000), to provide means for the construction of a concrete culvert and work incidental thereto, to replace the present bridge at Norton's Creek, Edgemere, Fifth Ward, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the construction of a concrete retaining wall on the Shore road, between Hoyt and Woolsey avenues, First Ward, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and one thousand and six hundred dollars ($101,600), to provide means for the cost of acquiring land and the construction of a refuse destructor, stable and section house at Rockaway, Fifth Ward, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and two thousand dollars ($202,000), to provide means for the cost of acquiring land and the construction of a refuse destructor, stable and section house at Ridgewood, Second Ward, in the Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New

York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the construction of an interior public bath in Ridgewood, Second Ward, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purpose aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding nine thousand dollars ($9,000), to provide means for the construction of a public comfort station in Ridgewood, Second Ward, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and eighty-four thousand dollars ($184,000), in addition to corporate stock heretofore authorized, to provide means for the use of the Topographical Bureau of the Borough of Queens, in preparing and completing maps and monumenting all territory within said Borough, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which motion was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four hundred thousand dollars ($400,000), in addition to corporate stock heretofore authorized, to provide means for the repaving of streets and avenues in the Borough of Queens, provided, however, that no contract shall be made for repaving any street or avenue unless the Borough President having charge thereof submits to the Comptroller with such contract evidence showing that the original pavement on such street or avenue was laid at the expense of the abutting property owners or by local taxation or by bond issues paid by the locality before consolidation, unless the Board of Estimate and Apportionment shall otherwise determine upon presentation of the facts and circumstances affecting such street and avenue, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of Section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand dollars ($3,000), in addition to corporate stock heretofore authorized, to provide means for the construction of a public comfort station at the Bridge Plaza, in the Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by Section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on May 13, 1904, and concurred in by the Board of Aldermen on May 17, 1904:

> "'Whereas, The President of the Borough of Queens, in a communication to the Board of Estimate and Apportionment, dated February 18, 1904, has made requisition for an issue of bonds to the amount of twenty-five thousand dollars ($25,000), to provide for the purchase, acquisition or construction of a crematory, as provided by section 546 of the Greater New York Charter, for the Borough of Queens; therefore be it
>
> "'Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to the amount of twenty-five thousand dollars ($25,000), the proceeds whereof to be expended for the purposes aforesaid.'"

—be amended to read as follows:

> "Whereas, The President of the Borough of Queens, in a communication to the Board of Estimate and Apportionment, dated February 18, 1904, has made requisition for an issue of bonds to the amount of twenty-five thousand dollars ($25,000), to provide for the purchase, acquisition or construction of a crematory, as provided by section 546 of the Greater New York Charter, for the Borough of Queens; therefore be it
>
> "Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by Section 169 of the Greater New York Charter, to the amount of thirteen thousand nine hundred and thirty-six dollars ($13,936), the proceeds whereof to be expended for the purposes aforesaid,"

—be and the same is hereby further amended to make the amount read eleven thousand five hundred and fifty dollars ($11,550).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

THE PRESIDENT OF THE BOROUGH OF RICHMOND.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the

Department of the President of the Borough of Richmond for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the two Schedules, A and B, included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "A."

For the acquisition of a site and the construction of a Refuse Destructor at Tottenville	$26,000 00
For the construction of an Engineer's House, at the destructor works at Clifton	6,000 00
For grading and for the construction of a retaining wall at the destructor works at Clifton	6,500 00
For the construction of a stable for the Bureau of Street Cleaning, at the destructor works at Clifton	15,500 00
For land and buildings for storage purposes, in the Second and Fourth Wards	9,000 00
For the construction and maintenance of an Experimental Sewerage Disposal Plant	30,000 00
For acquiring an easement at the new Sea View Hospital	2,500 00
For acquiring a site for and the construction of a new County Court House	250,000 00
For wall or fence around the County Jail	10,000 00
	$355,500 00

Schedule "B."

C-PR-7. Street Cleaning New Stock and Plant	$15,000 00
C-PR-2. For the Topographical Bureau	155,000 00
	$170,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 546 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-six thousand dollars ($26,000), to provide means for the acquisition of a site and for the construction of a refuse destructor at Tottenville, in the Borough of Richmond, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 546 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars ($6,000), to provide means for the construction of an Engineer's House at the Refuse Destructor at Clifton, in the Borough of Richmond, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provision of section 546 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand five hundred dollars ($6,500), to provide means for the construction of a retaining wall, and for grading, etc., at the Refuse Destructor at Clifton, in the Borough of Richmond, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 546 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand five hundred dollars ($15,500), to provide means for the construction of a stable for the Bureau of Street Cleaning at Clifton, in the Borough of Richmond, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding nine thousand dollars ($9,000), to provide means for the acquisition of land and the construction of buildings for storage purposes in the Second and Fourth Wards, in the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000), to provide means for the construction and maintenance of an experimental Sewerage Disposal Plant at West New Brighton, in the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves

of the issue of corporate stock of The City of New York to an amount not exceeding two thousand five hundred dollars ($2,500), to provide means for acquiring an easement in connection with the construction of a sanitary sewer at the Sea View Hospital in the Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and fifty thousand dollars ($250,000), to provide means for the acquisition of a site and the construction of a new County Court House at New Brighton, in the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for the construction of a wall or fence around the County Jail at Richmond, in the Borough of Richmond, under the supervision of the President of the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), in addition to amounts heretofore authorized, to provide means for the Bureau of Street Cleaning, C-PR-7, new stock and plant, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York York Charter, as amended, the Board of Estimate and Apportionment hereby ap-

proves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and fifty-five thousand dollars ($155,000), in addition to amounts heretofore authorized, to provide means for the use of the Topographical Bureau of the Borough of Richmond in preparing and completing maps and monumenting all territory within said Borough, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The President of the Borough of Richmond requested an appropriation of $5,000 corporate stock for the completion of the work in connection with the elimination of grade crossings in that Borough, and the matter was referred to the Corporate Stock Budget Committee for a special report.

DEPARTMENT OF EDUCATION.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Education for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the four schedules A, B, C and D included herein.

Schedule "A" includes our recommendations for new authorizations of corporate stock other than additions to existing authorizations and the lump sum reserved for sundry items, allowances for which have not yet been fixed.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments of existing authorizations of corporate stock.

Schedule "D" includes our recommendation for the aforementioned lump sum appropriation aggregating $2,512,740 for the acquisition of sites and the construction and equipment of buildings, the amount to be expended for each item to be determined and fixed by this Board at a subsequent date.

Summary.

Schedule A.	New authorizations	$7,033,810 00
Schedule B.	Additions to existing authorizations	835,259 00
Schedule D.	Lump sum to be reserved	2,512,740 00
		$10,381,809 00
Schedule C.	Rescindments	4,228 01
	New authorizations, net	$10,377,580 99

Schedule "A."

New Authorizations of Corporate Stock Other Than Additions to Existing Authorization, Department of Education.

For Construction and Equipment of Buildings and Additions on Sites Owned.

Borough of Manhattan.

New Public School, West 176th and 177th streets, East of St. Nicholas avenue	$385,630 00
Addition, Public School 72, 105th street and Lexington avenue	52,000 00
New Public School 102, 113th street, east of 2d avenue	334,730 00

Borough of Brooklyn.

New Public School —, Pennsylvania avenue between Liberty and Glenmore avenues	$366,030 00
New Public School —, Dumont avenue, between Alabama and Williams avenues	366,030 00

New Public School —, Blake avenue, between Hopkinson avenue and Bristol street	366,030 00
New Public School —, 4th avenue, 29th and 30th streets	230,620 00
New Public School —, East 9th and 10th streets, between Avenues K and L	230,620 00

Borough of Queens.

Addition Public School 71, Forest avenue, East Williamsburg	$226,140 00
Addition Public School 49, Brenton avenue, Jamaica	218,240 00
Addition Public School 45, Three-Mile road, Jamaica South	108,370 00
Six cottages and stable, New York Parental School, Flushing	573,000 00

Borough of Richmond.

New Public School 22, Washington and Columbus avenues, Graniteville.	$102,120 00

For the Acquisition of Additional Sites.

Borough of The Bronx.

In the vicinity of Union avenue and East 155th street.
In the vicinity of Tinton avenue and East 163d street.
In the vicinity of Vyse and Bryant avenues and 173d street.
In the vicinity of 168th street, Park and Washington avenues.

Borough of Brooklyn.

Southeast of site selected at 12th avenue, 64th and 65th streets.
In the vicinity of South 3d street and Driggs avenue.

Borough of Queens.

In the vicinity of Hillside avenue and Cherry street, Douglaston.
In the vicinity of Fairview and Hillside avenues, Corona Heights.

Lump sum appropriation based on estimated cost of above sites	$695,000 00

For Construction and Equipment of Buildings on Aforementioned Sites to be Acquired.

Borough of The Bronx.

New Public School —, in the vicinity of Union avenue and East 155th street	$366,030 00
New Public School —, in the vicinity of Tinton avenue and East 163d street	366,030 00
New Public School —, in the vicinity of Vyse and Bryant avenues and 173d street	385,630 00
New Public School —, in the vicinity of 168th street, Park and Washington avenues	366,030 00

Borough of Brooklyn.

New Public School —, southeast of 12th avenue, 64th and 65th streets	$290,520 00
New Public School 50, in the vicinity of South 3d street and Driggs avenue	385,630 00

Borough of Queens.

New Public School —, in the vicinity of Hillside avenue and Cherry street, Douglaston	$145,760 00
New Public School —, in the vicinity of Fairview and Hillside avenues, Corona Heights	230,620 00

Miscellaneous.

Salaries and Wages of Inspectors and Draftsmen	$225,000 00
Contingencies, Surveys, Borings, Drafting, Supplies, etc	15,000 00
Two Portable Buildings, Public School 97, Benson and 25th avenues, Borough of Brooklyn	3,000 00
Total	$7,033,810 00

Schedule "B."

Additions to Existing Corporate Stock Authorizations—Department of Education.

	Original Resolution.				
	Adopted by the Board of Estimate and Apportionment.	Concurred in by the Board of Aldermen.	Title of Account.	Original Resolution.	Additional Authorizatio
A	Feb. 18, 1910	....	School Building Fund, Construction and Improvement, Bushwick High School, Irving Avenue, Madison and Woodbine Streets, Borough of Brooklyn..................	$450,000 00	....
			For equipment of the same..	....	$189,000 00
F	June 3, 1910	June 14, 1910	School Building Fund, Construction and Improvement, Bay Ridge High School, 4th Avenue, 67th and Senator Streets, Borough of Brooklyn.........................	395,000 00	....
			For equipment of the same..	....	286,000 00
E	Feb. 11, 1910	....	School Sites, Borough of Manhattan, subtitle No. 5, Hamilton Place, west of 140th and 141st Streets (Parcel 1)..	44,157 43	....
			For payment of award and interest on remainder of site.........................	....	350,259 00
A	June 24, 1910	....	School Sites, Costs, Charges and Expenses of Condemnation......................	10,000 00	10,000 00
			Total	$899,157 43	$835,259 00

SCHEDULE "C."

Rescindments or Partial Rescindments of Existing Authorizations of Corporate Stock—Department of Education.

Date of Original Authorization.	Title of Authorization.	Amount.	Amended Amount.	Amount Deducted.
April 24, 1908, as amended June 10, 1910; December 9, 1910, and January 26, 1911	School Building Fund, Construction and Improvement, Brooklyn, subtitle No. 6, Public School 126	$109,805 54	$109,450 00	$355 54
April 24, 1908, as amended June 10, 1910; December 9, 1910, and January 26, 1911	School Building Fund, Construction and Improvement, Brooklyn, subtitle No. 7, Public School 128	116,555 32	116,500 00	55 32
April 24, 1908, as amended June 10, 1910; December 9, 1910, and January 26, 1911	School Building Fund, Construction and Improvement, Brooklyn, subtitle No. 8, Public School 162	255,407 52	255,200 00	207 52
March 13, 1908, as amended October 30, 1908, and June 10, 1910	School Building Fund, Interior Construction and Equipment, Brooklyn, subtitle No. 4, Public School 93	51,508 25	50,700 00	808 25
February 5, 1909, as amended June 10, 1910	School Building Fund, Interior Construction and Equipment, Manhattan, subtitle No. 4, Public School 59	147 87	....	147 87
February 5, 1909	School Building Fund, Interior Construction and Equipment, Queens, subtitle No. 6, Public School 88	392 94	20 00	372 94
March 13, 1908	School Building Fund, Interior Construction and Equipment, The Bronx, subtitle No. 1, Public School 3	55,690 57	55,200 00	490 57
June 3, 1910	School Sites, Borough of Brooklyn, subtitle No. 11, High School, Bay Ridge, 67th and Senator streets	70,000 00	68,210 00	1,790 00
Total		$659,508 01	$655,280 00	$4,228 01

Schedule "D."

Lump sum appropriation for the acquisition of sites and the construction and equipment of buildings, the amount for each item to be fixed at a subsequent date by the Board of Estimate and Apportionment.

Borough of Manhattan.	
Site for building in vicinity of Williamsburg Bridge, estimated cost........	$100,000 00
Building on above site..	472,200 00
Central supply depository, 1st avenue, 67th and 68th streets, estimated cost	700,000 00
Borough of The Bronx.	
Site and building for new high school, estimated cost....................	500,000 00
Borough of Brooklyn.	
Additional site for Public School 28, Herkimer street, near Radde place, estimated cost	15,000 00
First half of new Public School 28, Herkimer street, near Radde place....	225,540 00
Borough of Queens.	
New High School, Whitestone avenue, between Broadway and State street, Flushing, estimated cost....................................	500,000 00
	$2,512,740 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and eighty-five thousand six hundred and thirty dollars ($385,630), to provide means for the construction and equipment of a public school building at West 176th and West 177th streets, 100 feet east of St. Nicholas avenue, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty-two thousand dollars ($52,000), to provide means for the construction and equipment of an addition to Public School 72, 105th street and Lexington avenue, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and thirty-four thousand seven hundred and thirty dollars

($334,730), to provide means for the construction and equipment of Public School 102, 113th street, east of 2d avenue, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and sixty-six thousand and thirty dollars ($366,030), to provide means for the construction and equipment of a Public School building at Pennsylvania avenue, between Liberty and Glenmore avenues, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and sixty-six thousand and thirty dollars ($366,030), to provide means for the construction and equipment of a public school building at Dumont avenue, between Alabama and Williams avenues, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and sixty-six thousand and thirty dollars ($366,030), to provide means for the construction and equipment of a public school building at Blake avenue, between Hopkinson avenue and Bristol street, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York

Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and thirty thousand six hundred and twenty dollars ($230,620), to provide means for the construction and equipment of a public school building at Fourth avenue, 29th and 30th streets, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and thirty thousand six hundred and twenty dollars ($230,620), to provide means for the construction and equipment of a public school building at East 9th and 10th streets, between Avenues K and L, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and twenty-six thousand one hundred and forty dollars ($226,140), to provide means for the construction and equipment of an addition to Public School 71, Forest avenue, East Williamsburg, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and eighteen thousand two hundred and forty dollars ($218,240), to provide means for the construction and equipment of an addition to Public School 49, Brenton avenue, Jamaica, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York

Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and eight thousand three hundred and seventy dollars ($108,370), to provide means for the construction and equipment of an addition to Public School 45, Three-Mile road, Jamaica South, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five hundred and seventy-three thousand dollars ($573,000), to provide means for the construction and equipment of six new cottages and a stable, New York Parental School, Flushing, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and two thousand one hundred and twenty dollars ($102,120), to provide means for the construction and equipment of a public school building at Washington and Columbus avenues, Graniteville, Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six hundred and ninety-five thousand dollars ($695,000), to provide means for the acquisition of school sites, as follows:

Borough of The Bronx.

In the vicinity of Union avenue and East 155th street. In the vicinity of Tinton avenue and East 163d street. In the vicinity of Vyse and Bryant avenues and 173d street. In the vicinity of 168th street, Park and Washington avenues.

Borough of Brooklyn.

To the south and east of 12th avenue, 64th and 65th streets. In the vicinity of South 3d street and Driggs avenue.

Borough of Queens.

In the vicinity of Hillside avenue and Cherry street, Douglaston. In the vicinity of Fairview and Hillside avenues, Corona Heights.

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and sixty-six thousand and thirty dollars ($366,030), to provide means for the construction and equipment of a public school building on a site to be acquired in the vicinity of Union avenue and East 155th street, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and sixty-six thousand and thirty dollars ($366,030), to provide means for the construction and equipment of a public school building on a site to be acquired in the vicinity of Tinton avenue and East 163rd street, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and eighty-five thousand six hundred and thirty dollars ($385,630), to provide means for the construction and equipment of a public school building on a site to be acquired in the vicinity of Vyse and Bryant avenues, and 173d street, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of

the issue of corporate stock of The City of New York to an amount not exceeding three hundred and sixty-six thousand and thirty dollars ($366,030), to provide means for the construction and equipment of a public school building on a site to be acquired in the vicinity of 168th street, Park and Washington avenues, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and ninety thousand five hundred and twenty dollars ($290,520), to provide means for the construction and equipment of a public school building on a site to be acquired to the east and south of 12th avenue, 64th and 65th streets, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred eighty-five thousand six hundred and thirty dollars ($385,630), to provide means for the construction and equipment of a public school building on a site to be acquired in the vicinity of South 3rd street and Driggs avenue, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and forty-five thousand seven hundred and sixty dollars ($145,760), to provide means for the construction and equipment of a public school building on a site to be acquired in the vicinity of Hillside avenue and Cherry street, Douglaston, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and thirty thousand six hundred and twenty dollars ($230,620) to provide means for the construction and equipment of a public school building on a site to be acquired in the vicinity of Fairview and Hillside avenues, Corona Heights, Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and twenty-five thousand dollars ($225,000), to provide means for the payment of the salaries and wages of Inspectors and Draftsmen in the Bureau of Buildings, Department of Education, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for contingencies, including surveys, borings, drafting supplies, etc., in the Bureau of Buildings, Department of Education, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand dollars ($3,000), to provide means for the construction of two portable school buildings on the grounds of Public School 97, Benson and 25th avenues, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and eighty-nine thousand dollars ($189,000), to provide means for the interior construction and equipment of the Bushwick High School, Irving avenue, Madison and Woodbine streets, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and eighty-six thousand dollars ($286,000), to provide means for the interior construction and equipment of the Bay Ridge High School, Fourth avenue, 67th and Senator streets, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and fifty thousand two hundred and fifty-nine dollars ($350,259), to provide means for the payment of the award and interest in School Sites Proceedings—Hamilton place, west of 140th and 141st streets, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for the payment of costs, charges and expenses incidental to the condemnation of school sites, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That subject to concurrence herewith by the Board of Aldermen, the following amended resolution adopted by the Board of Estimate and Apportionment January 26, 1911, and approved by the Board of Aldermen February 7, 1911:

Resolved, That, subject to concurrence herewith by the Board of Aldermen, the following resolution, adopted by the Board of Estimate and Apportionment on December 9, 1910, and approved by the Board of Aldermen on December 20, 1910:

Resolved, That, subject to concurrence herewith by the Board of Aldermen, the following resolution, adopted by the Board of Estimate and Apportionment June 10, 1910, and approved by the Board of Aldermen June 21, 1910:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution, adopted by the Board of Estimate and Apportionment April 24, 1908, and approved by the Board of Aldermen May 26, 1908:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four million six hundred and seven thousand and seventy-five dollars ($4,607,075) to provide means for the construction and improvement of public school buildings and additions thereto, as follows:

School.	Location.	Amount.
	HIGH SCHOOLS.	
	Borough of Brooklyn.	
Girls High (addition)	Nostrand avenue, Halsey and Macon streets..........	$100,000 00
Erasmus Hall (addition)	Flatbush avenue, near Church avenue.................	400,000 00
	ELEMENTARY SCHOOLS.	
	Borough of Manhattan.	
P. S. 101	111th street, near Lexington avenue, 44 rooms.........	295,000 00
P. S. 132	182d street and Wadsworth avenue, addition, 16 rooms.	96,000 00
	Borough of The Bronx.	
P. S. 30	141st street and Brook avenue, addition, 18 rooms......	135,000 00
	Borough of Brooklyn.	
P. S. 28	Herkimer street, near Ralph avenue, 36 rooms..........	211,000 00
P. S. 84	Glenmore and Stone avenues, addition, 32 rooms........	256,000 00
P. S. ..	Barren Island, improvements..........................	17,000 00
P. S. 128	21st avenue and 83d street, addition, 10 rooms..........	119,000 00
P. S. 160	Fort Hamilton avenue and 51st street, 35 rooms........	211,000 00
P. S. 131	Fort Hamilton avenue and 43d street, temporary buildings	8,000 00
P. S. 162	St. Nicholas avenue and Suydam street, 48 rooms......	280,000 00
P. S. 163	Benson and 17th avenues, 35 rooms....................	211,000 00
P. S. 164	14th avenue and 42d street, 48 rooms..................	327,000 00
P. S. 166	Porter avenue and Harrison place, 48 rooms...........	327,000 00
	Borough of Queens.	
P. S. 51	Johnson avenue, Richmond Hill, addition, 27 rooms...	198,000 00
P. S. 58	Walker and Grafton avenues, Woodhaven, addition, 24 rooms	195,000 00
P. S. 77	Covert avenue and George street, Ridgewood, 44 rooms.	330,000 00
P. S. 81	Ridgewood, temporary buildings......................	9,500 00
P. S. 87	Middle Village, addition, 24 rooms....................	202,000 00
P. S. 7	Van Alst avenue, Long Island City, addition, 24 rooms.	170,000 00
P. S. 92	Park and Grinnell avenues and Randall street, North Corona, 48 rooms................................	182,000 00
	Contingencies.	
	Salaries of Draftsmen, surveys, borings, drafting room supplies, etc..	195,575 00
		$4,607,075 00

—and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding four million six hundred and seven thousand and seventy-five dollars ($4,607,075), the proceeds whereof to be applied to the purposes aforesaid.

—be amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three million five hundred and nine thousand and seventy-seven dollars and eighty-nine cents ($3,509,077.89), to provide means for the construction and improvement of public school buildings and additions thereto, as follows:

School.	Location.	Amount.
	HIGH SCHOOLS.	
	Borough of Brooklyn.	
Girls High (addition)	Nostrand avenue, Halsey and Macon streets	$100,000 00
Erasmus Hall (addition)	Flatbush avenue, near Church avenue	400,000 00
	ELEMENTARY SCHOOLS.	
	Borough of Manhattan.	
P. S. 101	111th street, near Lexington avenue, 44 rooms	258,000 00
P. S. 132	182d street and Wadsworth avenue, addition, 16 rooms	55,500 00
	Borough of The Bronx.	
P. S. 30	141st street and Brook avenue, addition, 18 rooms	111,000 00
	Borough of Brooklyn.	
P. S. 84	Glenmore and Stone avenues, addition, 32 rooms	236,317 51
P. S. ..	Barren Island, improvements	17,000 00
P. S. 126	Meserole avenue and Lorimer street, addition, 16 rooms	109,805 54
P. S. 128	21st avenue and 83d street, addition, 10 rooms	116,555 32
P. S. 160	Fort Hamilton avenue and 51st street, 35 rooms	196,500 00
P. S. 131	Fort Hamilton avenue and 43d street, temporary building	8,000 00
P. S. 162	St. Nicholas avenue and Suydam street, 48 rooms	255,407 52
P. S. 163	Benson and 17th avenues, 35 rooms	194,000 00
P. S. 164	14th avenue and 42d street, 48 rooms	273,000 00
	Borough of Queens.	
P. S. 58	Walker and Grafton avenues, Woodhaven, addition, 24 rooms	188,000 00
P. S. 77	Covert avenue and George street, Ridgewood, 44 rooms	286,917 00
P. S. 81	Ridgewood, temporary buildings	9,500 00
P. S. 87	Middle Village, addition, 24 rooms	146,000 00
P. S. 7	Van Alst avenue, Long Island City, addition, 24 rooms	170,000 00
P. S. 92	Park and Grinnell avenues and Randall street, North Corona, 48 rooms	182,000 00
	Contingencies.	
Salaries of Draftsmen, surveys, borings, drafting room supplies, etc.		195,575 00
		$3,509,077 89

—and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter to an amount not exceeding three million five hundred and nine thousand and seventy-seven dollars and eighty-nine cents ($3,509,077.89), the proceeds whereof to be applied to the purposes aforesaid.

—be further amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New

York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three million four hundred and ninety-two thousand eight hundred and twenty-six dollars and twenty-nine cents ($3,492,826.29), to provide means for the construction and improvement of public school buildings and additions thereto, as follows:

School.	Location.	Amount.
	HIGH SCHOOLS.	
	Borough of Brooklyn.	
Girls High (addition)	Nostrand avenue, Halsey and Macon streets	$100,000 00
Erasmus Hall (addition)	Flatbush avenue, near Church avenue	400,000 00
	ELEMENTARY SCHOOLS.	
	Borough of Manhattan.	
P. S. 101	111th street, near Lexington avenue, 44 rooms	258,000 00
P. S. 132	182d street and Wadsworth avenue, addition, 16 rooms	55,500 00
	Borough of The Bronx.	
P. S. 30	141st street and Brook avenue, addition, 18 rooms	111,000 00
	Borough of Brooklyn.	
P. S. 84	Glenmore and Stone avenues, addition, 32 rooms	236,317 51
P. S. ..	Barren Island, improvements	17,000 00
P. S. 126	Meserole avenue and Lorimer street, addition, 16 rooms	109,805 54
P. S. 128	21st avenue and 83d street, addition, 10 rooms	116,555 32
P. S. 160	Fort Hamilton avenue and 51st street, 35 rooms	196,500 00
P. S. 131	Fort Hamilton avenue and 43d street, temporary building	8,000 00
P. S. 162	St. Nicholas avenue and Suydam street, 48 rooms	255,407 52
P. S. 163	Benson and 17th avenues, 35 rooms	194,000 00
P. S. 164	14th avenue and 42d street, 48 rooms	273,000 00
	Borough of Queens.	
P. S. 58	Walker and Grafton avenues, Woodhaven, addition, 24 rooms	188,000 00
P. S. 77	Covert avenue and George street, Ridgewood, 44 rooms	286,917 00
P. S. 81	Ridgewood, temporary buildings	9,500 00
P. S. 87	Middle Village, addition, 24 rooms	146,000 00
P. S. 7	Van Alst avenue, Long Island City, addition, 24 rooms	153,748 40
P. S. 92	Park and Grinnell avenues and Randall street, North Corona, 48 rooms	182,000 00
	Contingencies.	
Salaries of Draftsmen, surveys, borings, drafting room supplies, etc.		195,575 00
		$3,492,826 29

—and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding three million four hundred and ninety-two thousand eight hundred and twenty-six dollars and twenty-nine cents ($3,492,826.29), the proceeds whereof to be applied to the purposes aforesaid.
—be amended to make the amounts authorized as follows:

School.	Location.	Amount.
	HIGH SCHOOLS.	
	Borough of Brooklyn.	
Girls High (addition)	Nostrand avenue, Halsey and Macon streets	$85,000 00
Erasmus Hall (addition)	Flatbush avenue, near Church avenue	400,000 00

School.	Location.	Amount.
	ELEMENTARY SCHOOLS.	
	Borough of Manhattan.	
P. S. 101	111th street, near Lexington avenue, 44 rooms..........	258,000 00
P. S. 132	182d street and Wadsworth avenue, addition, 16 rooms....	55,500 00
	Borough of The Bronx.	
P. S. 30	141st street and Brook avenue, addition, 18 rooms......	111,000 00
	Borough of Brooklyn.	
P. S. 84	Glenmore and Stone avenues, addition, 32 rooms........	236,317 51
P. S. ..	Barren Island, improvements...........................	17,000 00
P. S. 126	Meserole avenue and Lorimer street, addition, 16 rooms..	109,805 54
P. S. 128	21st avenue and 83d street, addition, 10 rooms..........	116,555 32
P. S. 160	Fort Hamilton avenue and 51st street, 35 rooms........	196,500 00
P. S. 131	Fort Hamilton avenue and 43d street, temporary building.	8,000 00
P. S. 162	St. Nicholas avenue and Suydam street, 48 rooms........	255,407 52
P. S. 163	Benson and 17th avenues, 35 rooms....................	194,000 00
P. S. 164	14th avenue and 42d street, 48 rooms....................	273,000 00
	Borough of Queens.	
P. S. 58	Walker and Grafton avenues, Woodhaven, addition, 24 rooms	188,000 00
P. S. 77	Covert avenue and George street, Ridgewood, 44 rooms...	286,917 00
P. S. 81	Ridgewood, temporary buildings........................	9,500 00
P. S. 87	Middle Village, addition, 24 rooms.....................	146,000 00
P. S. 7	Van Alst avenue, Long Island City, addition, 24 rooms...	153,748 40
P. S. 92	Park and Grinnell avenues and Randall street, North Corona, 48 rooms..................................	182,000 00
	Contingencies.	
Salaries of Draftsmen, surveys, borings, drafting room supplies, etc...		195,575 00
		$3,477,826 29

—be amended to make the total amount authorized not more than three million four hundred and seventy-seven thousand two hundred and seven dollars and ninety-one cents ($3,477,207.91), distributed as follows:

School.	Location.	Amount.
	HIGH SCHOOLS.	
	Borough of Brooklyn.	
Girls High (addition)	Nostrand avenue, Halsey and Macon streets.............	$85,000 00
Erasmus Hall (addition)	Flatbush avenue, near Church avenue....................	400,000 00
	ELEMENTARY SCHOOLS.	
	Borough of Manhattan.	
P. S. 101	111th street, near Lexington avenue, 44 rooms...........	258,000 00
P. S. 132	182d street and Wadsworth avenue, addition, 16 rooms....	55,500 00
	Borough of The Bronx.	
P. S. 30	141st street and Brook avenue, addition, 18 rooms......	111,000 00
	Borough of Brooklyn.	
P. S. 84	Glenmore and Stone avenues, addition, 32 rooms........	236,317 51
P. S. ..	Barren Island, improvements..........................	17,000 00
P. S. 126	Meserole avenue and Lorimer street, addition, 16 rooms..	109,450 00
P. S. 128	21st avenue and 83d street, addition, 10 rooms............	116,500 00
P. S. 160	Fort Hamilton avenue and 51st street, 35 rooms..........	196,500 00

School.	Location.	Amount.
P. S. 131	Fort Hamilton avenue and 43d street, temporary building.	8,000 00
P. S. 162	St. Nicholas avenue and Suydam street, 48 rooms........	255,200 00
P. S. 163	Benson and 17th avenues, 35 rooms....................	194,000 00
P. S. 164	14th avenue and 42d street, 48 rooms....................	273,000 00
	Borough of Queens.	
P. S. 58	Walker and Grafton avenues, Woodhaven, addition, 24 rooms	188,000 00
P. S. 77	Covert avenue and George street, Ridgewood, 44 rooms...	286,917 00
P. S. 81	Ridgewood, temporary buildings........................	9,500 00
P. S. 87	Middle Village, addition, 24 rooms......................	146,000 00
P. S. 7	Van Alst avenue, Long Island City, addition, 24 rooms..	153,748 40
P. S. 92	Park and Grinnell avenues and Randall street, North Corona, 48 rooms	182,000 00
	Contingencies.	
Salaries of Draftsmen, surveys, borings, drafting rooms supplies, etc...		195,575 00
		$3,477,207 91

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the following amended resolution, adopted by the Board of Estimate and Apportionment June 10, 1910:

Resolved, That the following resolution adopted by the Board of Estimate and Apportionment March 13, 1908, as amended October 30, 1908, and February 5, 1909:

Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to the amount of one million nine hundred and fifty-seven thousand three hundred and sixty-two dollars and sixteen cents ($1,957,362.16), to provide means for the equipment of various school buildings now under construction, including electric work, heating and ventilating work, furniture, etc., and the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one million nine hundred and fifty-seven thousand three hundred and sixty-two dollars and sixteen cents ($1,957,362.16), the proceeds whereof to be applied to the purposes aforesaid, and in the manner and amounts described hereunder:

District.	School.	Location.	Amount.
		Borough of Manhattan.	
5	4	Addition, Rivington, Ridge and Pitt streets........	$49,589 30
11	17	West 47th and 48th streets........................	91,000 00
21	100	138th and 139th streets, west of 5th avenue.........	145,000 00
1	114	73 Oliver street	104,500 00
8	14	Addition, 225 East 27th street......................	21,075 00
1	29	Albany, Washington and Carlisle streets, additional story	4,129 00
15	96	Avenue A, 81st and 82d streets....................	32,155 77
4	12	Madison and Jackson streets.......................	9,153 00
9	41	Addition, 36 Greenwich avenue....................	6,255 00
12	59	Addition, 228 East 57th street......................	9,529 00
16	66	88th street, near 1st avenue........................	6,461 00
6	91	Stanton and Forsyth streets........................	27,200 00
		Borough of The Bronx.	
24	3	Addition, 157th street, east of Courtlandt avenue....	55,690 57
26	16	Catharine and Matilda streets, Wakefield..........	60,800 00
23	43	Brown place and 135th street......................	8,333 00

District.	School.	Location.	Amount.
		Borough of Brooklyn.	
35	24	Addition, Beaver and Belvidere streets and Arion place	47,004 75
40	64	Addition, Berriman street, Belmont and Atkins avenues	107,500 00
35	75	Evergreen avenue and Ralph street	70,092 68
29	93	New York avenue and Herkimer street	63,000 00
38	153	Avenue T, east of 12th street	55,819 00
38	154	11th avenue, Windsor place and Sherman street	45,349 22
36	155	Eastern parkway and Herkimer street	70,532 09
39	156	Sutter avenue, Barrett and Grafton streets	127,000 00
29	157	Kent avenue and Taaffe place, near Park avenue	111,500 00
40	158	Belmont avenue, Ashford and Warwick streets	86,500 00
40	159	Pitkin avenue, Hemlock and Crescent streets	53,109 76
37	131	Fort Hamilton avenue, 43d and 44th streets, temporary buildings in yard	1,978 40
27	5	Duffield, Johnson and Gold streets	76,435 41
39	66	Osborn and Watkins streets, near Sutter avenue	1,500 00
37	140	Addition, 60th street, west of 4th avenue	15,906 00
38	94	Prospect avenue, opposite Reeve place	7,314 00
32	129	Addition, Quincy street, near Stuyvesant avenue	7,347 00
38	152	Avenue G and East 23d street	7,744 00
T. S. T.	138	Prospect place, west of Nostrand avenue	5,820 00
		Borough of Queens.	
44	56	Orchard avenue and Elm street, Richmond Hill	41,784 71
44	90	Washington avenue, near Jamaica avenue, Richmond Hill	70,663 10
44	81	Cypress avenue, Ralph and Bleecker streets, temporary building in yard	2,599 70
42	89	Orchard avenue, 5th and 6th streets, Elmhurst	62,315 35
42	16	Sycamore avenue, Corona	7,491 00
44	88	Elm avenue and Fresh Pond road	7,480 00
		Borough of Richmond.	
45	19	Addition, Greenleaf avenue, West New Brighton	6,200 00
46	28	Fresh Kills road, Richmond	5,111 00
46	13	Pennsylvania avenue, Rosebank	7,188 00
		Miscellaneous.	
		Office Building, 131 Livingston street, Brooklyn—	
		Furniture	8,198 00
		Parental School, Flushing, Queens—	
		Furniture	23,852 35
		Sewage disposal	30,534 00
		Heating	91,622 00
			$1.957,362 16

—be amended to read as follows:

Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to the amount of one million eight hundred and twenty-five thousand two hundred and fourteen dollars and nineteen cents ($1,825,214.19), to provide means for the equipment of various school buildings now under construction, including electric work, heating and ventilating work, furniture, etc., and the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one million eight hundred and twenty-five thousand two hundred and fourteen dollars and nineteen cents ($1,825,214.19), the proceeds whereof to be applied to the purposes aforesaid, and in the manner and amounts described hereunder:

District.	School.	Location.	Amount.
		Borough of Manhattan.	
5	4	Addition, Rivington, Ridge and Pitt streets	$49,589 30
11	17	West 47th and 48th streets	91,000 00
21	100	West 138th and 139th streets, west of 5th avenue	145,000 00
1	114	73 Oliver street	74,187 67
8	14	Addition, 225 East 27th street	21,075 00
1	29	Albany, Washington and Carlisle streets, additional story.	4,129 00
15	96	Avenue A, 81st and 82d streets	32,155 77
4	12	Madison and Jackson streets	9,146 05
9	41	Addition, 36 Greenwich avenue	6,255 00
12	59	Addition, 228 East 57th street	9,529 00
16	66	88th street, near 1st avenue	6,461 00
6	91	Stanton and Forsyth streets	27,200 00
		Borough of The Bronx.	
24	3	Addition, 157th street, east of Courtlandt avenue	55,690 57
26	16	Catharine and Matilda streets, Wakefield	50,320 77
23	43	Brown place and 135th street	8,333 00
		Borough of Brooklyn.	
35	24	Addition, Beaver and Belvidere streets and Arion place	47,004 75
40	64	Addition, Berriman street, Belmont and Atkins avenues.	97,500 00
35	75	Evergreen avenue and Ralph street	69,691 04
29	93	New York avenue and Herkimer street	51,508 25
38	153	Avenue T, east of 12th street	55,635 00
38	154	11th avenue, Windsor place and Sherman street	45,349 22
36	155	Eastern parkway and Herkimer street	70,532 09
39	156	Sutter avenue, Barrett and Grafton streets	100,777 49
29	157	Kent avenue and Taaffe place, near Park avenue	88,270 83
40	158	Belmont avenue, Ashford and Warwick streets	67,032 81
40	159	Pitkin avenue, Hemlock and Crescent streets	53,109 76
37	131	Fort Hamilton avenue, 43d and 44th streets, temporary buildings in yard	1,978 40
27	5	Duffield, Johnson and Gold streets	76,200 00
39	66	Osborn and Watkins streets, near Sutter avenue	1,500 00
37	140	Addition, 60th street, west of 4th avenue	15,906 00
38	94	Prospect avenue, opposite Reeve place	7,314 00
32	129	Addition, Quincy street, near Stuyvesant avenue	7,292 31
38	152	Avenue G. and East 23d street	7,744 00
T. S. T.	138	Prospect place, west of Nostrand avenue	5,820 00
		Borough of Queens.	
44	56	Orchard avenue and Elm street, Richmond Hill	41,784 71
44	90	Washington avenue, near Jamaica avenue, Richmond Hill	70,600 00
44	81	Cypress avenue, Ralph and Bleecker streets, temporary building in yard	2,599 70
42	89	Orchard avenue, 5th and 6th streets, Elmhurst	62,315 35
42	16	Sycamore avenue, Corona	7,491 00
44	88	Elm avenue and Fresh Pond road	7,480 00
		Borough of Richmond.	
45	19	Addition, Greenleaf avenue, West New Brighton	6,200 00
46	28	Fresh Kills road, Richmond	5,111 00
46	13	Pennsylvania avenue, Rosebank	7,188 00
		Miscellaneous.	
Office Building, 131 Livingston street, Brooklyn— Furniture			8,198 00
Parental School, Flushing, Queens— Furniture			23,852 35
Sewage disposal			30,534 00
Heating			91,622 00
			$1,825,214 19

—be amended to make the total amount authorized not more than one million eight hundred and twenty-three thousand nine hundred and fifteen dollars and thirty-seven cents ($1,823,915.37), distributed as follows:

District.	School.	Location.	Amount.
		Borough of Manhattan.	
5	4	Addition, Rivington, Ridge and Pitt streets	$49,589 30
11	17	West 47th and 48th streets	91,000 00
21	100	138th and 139th streets, west of 5th avenue	145,000 00
1	114	73 Oliver street	74,187 67
8	14	Addition, 225 East 27th street	21,075 00
1	29	Albany, Washington and Carlisle streets, additional story.	4,129 00
15	96	Avenue A, 81st and 82d streets	32,155 77
4	12	Madison and Jackson streets	9,146 05
9	41	Addition, 36 Greenwich avenue	6,255 00
12	59	Addition, 228 East 57th street	9,529 00
16	66	88th street, near 1st avenue	6,461 00
6	91	Stanton and Forsyth streets	27,200 00
		Borough of The Bronx.	
24	3	Addition, 157th street, east of Courtlandt avenue	55,200 00
26	16	Catharine and Matilda streets, Wakefield	50,320 77
23	43	Brown place and 135th street	8,333 00
		Borough of Brooklyn.	
35	24	Addition, Beaver and Belvidere streets and Arion place	47,004 75
40	64	Addition, Berriman street, Belmont and Atkins avenues	97,500 00
35	75	Evergreen avenue and Ralph street	69,691 04
29	93	New York avenue and Herkimer street	50,700 00
38	153	Avenue T, east of 12th street	55,635 00
38	154	11th avenue, Windsor place and Sherman street	45,349 22
36	155	Eastern parkway and Herkimer street	70,532 09
39	156	Sutter avenue, Barrett and Grafton streets	100,777 49
29	157	Kent avenue and Taaffe place, near Park avenue	88,270 83
40	158	Belmont avenue, Ashford and Warwick streets	67,032 81
40	159	Pitkin avenue, Hemlock and Crescent streets	53,109 76
37	131	Fort Hamilton avenue, 43d and 44th streets, temporary buildings in yard	1,978 40
27	5	Duffield, Johnson and Gold streets	76,200 00
39	66	Osborn and Watkins streets, near Sutter avenue	1,500 00
37	140	Addition, 60th street, west of 4th avenue	15,906 00
38	94	Prospect avenue, opposite Reeve place	7,314 00
32	129	Addition, Quincy street, near Stuyvesant avenue	7,292 31
38	152	Avenue G and East 23d street	7,744 00
T. S. T.	138	Prospect place, west of Nostrand avenue	5,820 00
		Borough of Queens.	
44	56	Orchard avenue and Elm street, Richmond Hill	41,784 71
44	90	Washington avenue, near Jamaica avenue, Richmond Hill	70,600 00
44	81	Cypress avenue, Ralph and Bleecker streets, temporary building in yard	2,599 70
42	89	Orchard avenue, 5th and 6th streets, Elmhurst	62,315 35
42	16	Sycamore avenue, Corona	7,491 00
44	88	Elm avenue and Fresh Pond road	7,480 00
		Borough of Richmond.	
45	19	Addition, Greenleaf avenue, West New Brighton	6,200 00
46	28	Fresh Kills road, Richmond	5,111 00
46	13	Pennsylvania avenue, Rosebank	7,188 00
		Miscellaneous.	
Office Building, 131 Livingston street, Brooklyn—Furniture			8,198 00
Parental School, Flushing, Queens—Furniture			23,852 35

District.	School.	Location.	Amount.
Sewage disposal			30,534 00
Heating			91,622 00
			$1,823,915 37

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the following amended resolution adopted by the Board of Estimate and Apportionment June 10, 1910:

Resolved, That the following resolution adopted by the Board of Estimate and Apportionment February 5, 1909:

Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to the amount of one hundred and ninety-seven thousand three hundred and forty-one dollars and eighty-four cents ($197,341.84) to provide means for the equipment of sundry public school buildings, including electric work, heating and ventilating work, furniture, pianos, etc., and the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and ninety-seven thousand three hundred and forty-one dollars and eighty-four cents ($197,341.84), the proceeds whereof to be applied to the purposes aforesaid in the manner and amounts hereinafter described:

School.	Location.	Amount.
	Borough of Manhattan.	
132	182d street and Wadsworth avenue	$17,285 00
59	228 East 57th street	147 87
27	41st street and 42d street, east of 3d avenue	125 00
91	Stanton and Forsyth streets	155 00
	Sundry pianos	13,660 00
	Borough of The Bronx.	
	Sundry pianos	3,530 00
	Borough of Brooklyn.	
126	Meserole avenue, Lorimer and Guernsey streets	18,200 00
128	21st avenue, 83d and 84th streets	19,000 00
160	Fort Hamilton avenue, 51st and 52d streets	37,000 00
162	St. Nicholas and Willoughby avenues and Suydam street	12,100 00
163	Benson and 17th avenues and Bay 14th street	8,000 00
5	Tillary, Bridge and Lawrence streets	175 00
84	Glenmore and Stone avenues and Watkins street	6,000 00
	Sundry pianos	21,140 00
	Borough of Queens.	
88	Elm avenue and Fresh Pond road	392 94
	Parental School—Grading and coal sheds	2,000 00
	Parental School—Heating and ventilating	1,485 00
	Parental School—Water supply	13,997 00
	Parental School—Sewage disposal	556 54
	Sundry pianos	7,585 00
	Borough of Richmond.	
	Sundry pianos	750 00
	Miscellaneous.	
	Wages of Inspectors, Draftsmen, bills for surveys, supplies, etc., etc	14,057 49
		$197,341 84

—be amended to read as follows:

Resolved, That, pursuant to the provisions of section 169 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to the amount of one hundred and ninety-one thousand six hundred and fifteen dollars and seventy-seven cents ($191,615.77), to provide means for the equipment of sundry public school buildings, including electric work, heating and ventilating work, furniture, pianos, etc., and the Comptroller be and is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and ninety-one thousand six hundred and fifteen dollars and seventy-seven cents ($191,615.77), the proceeds whereof to be applied to the purposes aforesaid in the manner and amounts hereinafter described:

School.	Location.	Amount.
	Borough of Manhattan.	
132	182d street and Wadsworth avenue	$17,285 00
59	228 East 57th street	147 87
91	Stanton and Forsyth streets	155 00
	Sundry pianos	13,660 00
	Borough of The Bronx.	
	Sundry pianos	3,530 00
	Borough of Brooklyn.	
126	Meserole avenue, Lorimer and Guernsey streets	18,200 00
128	21st avenue, 83d and 84th streets	19,000 00
160	Fort Hamilton avenue, 51st and 52d streets	33,128 93
162	St. Nicholas and Willoughby avenues and Suydam street	12,100 00
163	Benson and 17th avenues and Bay 14th street	7,000 00
5	Tillary, Bridge and Lawrence streets	175 00
84	Glenmore and Stone avenues and Watkins street	6,000 00
	Sundry pianos	21,140 00
	Borough of Queens.	
88	Elm avenue and Fresh Pond road	392 94
Parental—Grading and coal sheds		2,000 00
Parental—Heating and ventilating		1,485 00
Parental—Water supply		13,997 00
Parental—Sewage disposal		556 54
	Sundry pianos	6,980 00
	Borough of Richmond.	
	Sundry pianos	625 00
	Miscellaneous.	
	Wages of Inspectors, Draftsmen, bills for surveys, supplies, etc., etc.	14,057 49
		$191,615 77

—be amended to make the total amount authorized not more than one hundred and ninety-one thousand and ninety-four dollars and ninety-six cents ($191,094.96), distributed as follows:

School.	Location.	Amount.
	Borough of Manhattan.	
132	182d street and Wadsworth avenue	$17,285 00
91	Stanton and Forsyth streets	155 00
	Sundry pianos	13,660 00
	Borough of The Bronx.	
	Sundry pianos	3,530 00
	Borough of Brooklyn.	
126	Meserole avenue, Lorimer and Guernsey streets	18,200 00
128	21st avenue, 83d and 84th streets	19,000 00

160	Fort Hamilton avenue, 51st and 52d streets	33,128 93
162	St. Nicholas and Willoughby avenues and Suydam streets	12,100 00
163	Benson and 17th avenues and Bay 14th street	7,000 00
5	Tillary, Bridge and Lawrence streets	175 00
84	Glenmore and Stone avenues and Watkins street	6,000 00
	Sundry pianos	21,140 00
	Borough of Queens.	
88	Elm avenue and Fresh Pond road	20 00
Parental	Grading and coal sheds	2,000 00
Parental	Heating and ventilating	1,485 00
Parental	Water supply	13,997 00
Parental	Sewage disposal	556 54
	Sundry pianos	6,980 00
	Borough of Richmond.	
	Sundry pianos	625 00
	Miscellaneous.	
	Wages of Inspectors, Draftsmen, bills for surveys, supplies, etc., etc.	14,057 49
		$191,094 96

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, subject to concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 14, 1910:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy thousand dollars ($70,000), to provide means for the purchase of site for new high school, Bay Ridge Section, Borough of Brooklyn, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding seventy thousand dollars ($70,000), the proceeds whereof to be applied to the purposes aforesaid,"

—be amended to make the amount authorized sixty-eight thousand two hundred and ten dollars ($68,210).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two million five hundred twelve thousand seven hundred and forty dollars ($2,512,740), to provide means for the acquisition of school sites, the construction and equipment of school buildings, etc., as follows:

Borough of Manhattan.

Site and building for new school in the vicinity of the Williamsburg Bridge.
Central Supply Depository, 1st avenue, 67th and 68th streets.

Borough of The Bronx.

Site and building for new high school.

Borough of Brooklyn.

Site and building for new Public School 28.

Borough of Queens.

New high school building at Whitestone avenue, between Broadway and State street, Flushing,

—the amount to be expended for each of the above purposes to be determined and fixed at a subsequent date by the Board of Estimate and Apportionment upon the recommendation of the Corporate Stock Budget Committee, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be appliled to the purposes aforesaid; and be it further

Resolved, That no proceedings shall be undertaken for the acquisition of any site and no contract shall be entered into for the construction or equipment of any building to be paid for out of the proceeds of the corporate stock hereby authorized unless the Board of Estimate and Apportionment shall first approve the location and the cost of the site, and the plans, specifications and estimated cost of the building.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF DOCKS AND FERRIES.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Docks and Ferries for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions.

The accompanying schedule includes our recommendations for new authorizations other than additions to existing authorizations:

1.	For property now being acquired through condemnation proceedings, title to which is vested in the City, with interest computed to December 31, 1911	$5,351,638 29
2.	Construction of a new pier at 135th street, North River	79,000 00
3.	Construction of a new pier at East 38th street, East River	30,000 00
4.	Construction of a new pier at East 103d street, East River	26,000 00
5.	Construction of a pier at Cheever place, Harlem River (including wharf property)	85,000 00
6.	Construction of a pier at Nott avenue, Long Island City, Borough of Queens	25,000 00
7.	Construction of extension to Pier 43, North River	12,000 00
8.	Construction of extension to pier at West 45th street, North River	35,000 00
9.	Construction of extension to pier at West 46th street, North River	35,000 00
10.	Construction of extension to pier at West 47th street, North River	35,000 00
11.	Construction of extension to pier at West 48th street, North River	35,000 00
12.	Construction of extension to pier at West 49th street, North River	35,000 00
13.	For Riverside Park Exension	20,000 00
14.	Construction of a new ferryhouse at Thirty-ninth street, Brooklyn	200,000 00
15.	One new ferryboat	300,000 00
16.	Construction of steel and concrete platform in the rear of ferryhouse at St. George, Borough of Richmond, and for rearranging the railroad tracks on the ground or lower level	209,000 00
17.	Salaries and wages of departmental construction force	586,763 00
18.	Construction of two shelter houses for longshoremen	3,500 00
		$7,102,901 29

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five million, three hundred and fifty-one thousand, six hundred and thirty-eight dollars and twenty-nine cents ($5,351,638.29) to provide means for the acquisition of property through condemnation proceedings for the uses and purposes of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-nine thousand dollars ($79,000) to provide means for the construction of a new pier at 135th street, North River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000) to provide means for the construction of a new pier at East 38th street, East River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-six thousand dollars ($26,000) to provide means for the construction of a new pier at East 103d street, East River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The

City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eighty-five thousand dollars ($85,000) to provide means for the construction of a pier at Cheever place, Harlem River (including wharf property), under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000) to provide means for the construction of a pier at Nott avenue, Long Island City, Borough of Queens, under the jurisdiction of the Department of Docks and Ferries and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twelve thousand dollars ($12,000) to provide means for the construction of extension to Pier 43, North River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000) to provide means for the construction of extension to pier at West 45th street, North River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of tne Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000) to provide means for the construction of extension to pier at West 46th street, North River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding Thirty-five thousand dollars ($35,000) to provide means for the construction of extension to pier at West 47th street, North River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding Thirty-five thousand dollars ($35,000) to provide means for the construction of extension to pier at West 48th street, North River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000) to provide means for the construction of extension to pier at West 49th street, North River, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for dredging for and the construction of riprap foundations and retaining walls between 83d and 129th streets, North River, by the Department of Docks and Ferries in connection with the extension of Riverside Park, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the construction of a new ferry-house at Thirty-ninth street, Brooklyn, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred thousand dollars ($300,000), to provide means for one new ferryboat, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and nine thousand dollars ($209,000), to provide means for the construction of steel and concrete platform in the rear of ferry-house at St. George, Borough of Richmond, and for rearranging the railroad tracks on the ground or lower level, under the jurisdiction of the Department of Docks and Ferries, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five hundred anad eighty-six thousand seven hundred and sixty-three dollars ($586,763), to provide means for the payment of salaries and wages of the departmental construction force of the Department of Docks and Ferries from August 1 to December 31, 1911, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and section 180 of the said Charter and the recommendation of the Commissioners of the Sinking Fund by resolution adopted July 12, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand five hundred dollars ($3,500), to provide means for the construction of two shelter houses for longshoremen, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF BRIDGES.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Bridges for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with Schedule "A" included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock.

Schedule "A," New Authorizations.

Property already acquired for bridge purposes, awards, interest and costs	$1,800,000 00
Engineering Construction Force, salaries and wages	200,000 00
Engineering Construction Force, contingent expenses	10,000 00
Manhattan Bridge, improving streets and property under bridge and miscellaneous improvements	150,000 00
Administration Building at Manhattan Approach of Madison Avenue Bridge, construction of	27,500 00
New York and Brooklyn Bridge, miscellaneous improvements	27,000 00
Wiliamsburg Bridge, alterations in Manhattan subway station and additional stairway	22,500 00
Bridge over Bronx River at Ludlow avenue, construction of	20,500 00
Fresh Kills Bridge, Borough of Richmond, filling in southerly approach, etc.	13,500 00
Third Avenue Bridge over Harlem River, electrical ejuipment of	13,500 00
Willis Avenue Bridge over Harlem River, electrical equipment of	13,500 00
Ocean Avenue Bridge over Sheepshead Bay, borings	5,000 00
Bridge over the Harlem River at Morris Heights, borings	5,000 00
Bridge over the Bronx River at 174th street, borings	5,000 00
Metropolitan Avenue Bridge over English Kills, Borough of Queens, borings	2,000 00
	$2,315,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one million eight hundred thousand dollars ($1,800,000), to provide means for the payment of awards, interest and costs in connection with property acquired for bridge purposes, title to which is now vested in The City of New York, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the payment of salaries and wages of the Engineering Construction Force of the Department of Bridges, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The

City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding ten thousand dollars ($10,000), to provide means for the payment of the contingent expenses of the Engineering Construction Force of the Department of Bridges, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and fifty thousand dollars ($150,000), to provide means for required improvements in connection with the Manhattan Bridge, namely, lighting system and stairways on towers, gates and sand boxes on roadways, and improvement of streets and property under said bridge, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-seven thousand five hundred dollars ($27,500), to provide means for the construction of an administration building at the Manhattan approach of the Madison Avenue Bridge, over the Harlem River, for purposes of the Department of Bridges, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-seven thousand dollars ($27,000), to provide means for required improvements in connection with the New York and Brooklyn Bridge, namely, new promenade floor, sidewalks and electric power conduits, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-two thousand five hundred dollars ($22,500), to provide means for required improvements in connection with the Williamsburg Bridge, namely, alterations in Manhattan subway station and additional stairway to station from street surface, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty thousand five hundred dollars ($20,500), to provide means for the construction of a bridge over the Bronx River at Ludlow avenue, Borough of The Bronx, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirteen thousand five hundred dollars ($13,500), to provide means for required improvements in connection with the bridge over Richmond Creek, at Fresh Kills, Borough of Richmond, namely, filling in of southerly approach and construction of necessary crib and culverts, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirteen thousand five hundred dollars ($13,500), to provide means for the electrical equipment of the Third Avenue Bridge over the Harlem River, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirteen thousand five hundred dollars ($13,500), to provide means for the electrical equipment of the Willis Avenue Bridge over the Harlem River, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding five thousand dollars ($5,000), to provide means for required borings in connection with the proposed reconstruction of the bridge over Sheepshead Bay, at Ocean avenue, Borough of Brooklyn, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding five thousand dollars ($5,000), to provide means for required borings in connection with the proposed bridge over the Harlem River at Morris Heights, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding five thousand dollars ($5,000), to provide means for required borings in connection with the proposed bridge over the Bronx River at 174th street, Borough of The Bronx, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The

City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding two thousand dollars ($2,000), to provide means for required borings in connection with the reconstruction of the bridge over English Kills, at Metropolitan avenue, Borough of Queens, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

FIRE DEPARTMENT.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Fire Department for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with the three schedules A, B and C, included herein.

Schedule A includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule B includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule C includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule A—New Authorizations.

Acquisition of site, Grand and Mulberry avenues, Corona, Borough of Queens	$4,500 00
Erection of building, Grand and Mulberry avenues, Corona, Borough of Queens	50,000 00
Acquisition of site, Hoffman boulevard and Broadway, Elmhurst, Borough of Queens	7,500 00
Erection of building, Hoffman boulevard and Broadway, Elmhurst, Borough of Queens	50,000 00
Acquisition of site, Grand and Columbia avenues, Maspeth, Borough of Queens	4,500 00
Erection of building, Grand and Columbia avenues, Maspeth, Borough of Queens	50,000 00
Acquisition of site, Metropolitan avenue and Fresh Pond road, Borough of Queens	3,500 00
Erection of building, Metropolitan avenue and Fresh Pond road, Borough of Queens	50,000 00
Acquisition of site, Myrtle avenue and Fresh Pond road, Borough of Queens	4,500 00
Erection of building, Myrtle avenue and Fresh Pond road, Borough of Queens	50,000 00
Acquisition of site, Hoffman boulevard and Greenpoint avenue, Newtown, Borough of Queens	7,500 00
Erection of building, Hoffman boulevard and Greenpoint avenue, Newtown, Borough of Queens	50,000 00

Acquisition of site, Jamaica and Union avenues, Woodhaven, Borough of Queens	9,000 00
Erection of building, Jamaica and Union avenues, Woodhaven, Borough of Queens	50,000 00
Acquisition of site, Flushing and 9th avenues, Whitestone, Borough of Queens	3,000 00
Erection of building, Flushing and 9th avenues, Whitestone, Borough of Queens	50,000 00
Acquisition of site, Concord section of the Borough of Richmond	1,000 00
Erection of building, Concord section of the Borough of Richmnd	50,000 00
Acquisitin of site, Pennsylvania and Riverdale avenues, Borough of Brooklyn	6,000 00
Erection of building, Pennsylvania and Riverdale avenues, Borough of Brooklyn	50,000 00
Erection of building, 79th street, between 11th and 12th avenues, Borough of Brooklyn	55,000 00
Acquisition of site, Broad and Brook streets, Stapleton, Borough of Richmond	3,700 00
Erection of building, Broad and Brook streets, and rebuilding quarters of Engine Company No. 203 at Stapleton, Borough of Richmond	40,000 00
Erection of building for fire alarm telegraph station, Central Park, Manhattan	80,000 00
Erection of building for fire alarm telegraph station, Eastern parkway and Prospect Park, Borough of Brooklyn	60,000 00
Erection of building for fire alarm telegraph station, St. Anns avenue and Germain place, Borough of The Bronx	50,000 00
Fire alarm telegraph system—overhead circuits on outskirts of Borough of Brooklyn	10,000 00
Fire alarm telegraph system, Manhattan	150,000 00
Fire alarm telegraph system, The Bronx	100,000 00
Fire alarm telegraph system, Brooklyn	60,000 00
Fire alarm telegraph system, Queens	12,000 00
Apparatus, Manhattan	132,140 00
Apparatus, The Bronx	130,260 00
Apparatus, Brooklyn	228,840 00
Apparatus, Queens	159,440 00
Apparatus, Richmond	24,500 00
Construction and equipment of a new fire boat	125,000 00
	$1,971,880 00

Schedule B—Additions to Existing Corporate Stock Authorizations.

Rescind resolution of the Board of Estimate and Apportionment adopted June 3, 1910, and approved by the Board of Aldermen June 21, 1910, which amended resolution of the Board of Estimate and Apportionment adopted March 16, 1906, and approved by the Board of Aldermen April 3, 1906, providing for purchase of new hose wagons, aerial trucks and steam fire engines, to read $119,939.06, instead of $120,000, thereby rescinding an amount of $60.94, which increases authorizations of corporate stock to the extent of	$60 94

Further amend resolution of the Board of Estimate and Apportionment adopted June 3, 1910, and approved by the Board of Aldermen June 21, 1910, which amended resolution of the Board of Estimate and Apportionment, adopted September 27, 1907, and approved by the Board of Aldermen October 29, 1907, providing for purchase of new fire aparatus,

—to read:

For the Borough of Manhattan	$50,000 00
For the Borough of The Bronx	20,000 00
For the Borough of Brooklyn	40,000 00
For the Borough of Queens	12,500 00
	$122,500 00

—instead of		
For the Borough of Manhattan	$50,000 00	
For the Borough of The Bronx	20,000 00	
For the Borough of Brooklyn	40,000 00	
For the Borough of Queens	12,215 00	
	$122,215 00	
—thereby increasing authorization		285 00
Increase amount appropriated in the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site and the erection of a new building in the vicinity of Dyckman street and Broadway, from $40,000 to $62,000, thereby increasing the appropriation by an amount of		22,000 00
		$22,345 94

Schedule C—Amendments of Existing Corporate Stock Authorizations—Rescindments.

Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 21, 1910, which amended resolution adopted by the Board of Estimate and Apportionment April 28, 1905, and approved by the Board of Aldermen May 16, 1905, providing for the equipment and construction of fireboats, to read $117,050, instead of $117,090.68, thereby rescinding an amount of	$40 68
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site and erection of a new building in the vicinity of Southern boulevard and Westchester avenue, to read $79,100, instead of $105,000, thereby rescinding an amount of	25,900 00
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site and the erection of a new building in the vicinity of Wendover and Washington avenues, to read $87,000, instead of $100,000, thereby rescinding an amount of	13,000 00
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site and erection of a new building at High Bridge, Ogden avenue, adjoining Engine Company 68, to read $48,020, instead of $57,000, thereby rescinding an amount of	8,980 00
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site and the erection of a new building in the vicinity of Avenue C and East 16th street, Brooklyn, to read $52,450, instead of $55,000, thereby rescinding an amount of	2,550 00
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site in the vicinity of Stuyvesant avenue and Macon street, Brooklyn, to read $3,900, instead of $5,000, thereby rescinding an amount of	1,100 00
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing means for improving, permanently bettering and equipping the Bureau of Horse and Equipment Building at St. Edwards and Bolivar streets, Brooklyn, to read $5,000, instead of $15,000, thereby rescinding an amount of	10,000 00
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site and the erection of a new building in the vicinity of Benedict avenue and 5th street, Woodhaven, to read $26,100, instead of $28,000, thereby rescinding an amount of	1,900 00
Amend resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the improvement, permanent betterment and equipment of building at 78 and 80 Main street, Long Island City, to read $50, instead of $15,000, thereby rescinding an amount of	14,950 00

Rescind resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, providing for the acquisition of a site and erection of a new building in the vicinity of present location of Hook and Ladder Company 102 at Stapleton, S. I.	37,000 00
	$115,420 68

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty-five hundred dollars ($4,500), to provide means for the acquisition of a site in the vicinity of Grand and Mulberry avenues, Corona, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Grand and Mulberry avenues, Corona, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five hundred dollars ($7,500), to provide means for the acquisition of a site in the vicinity of Hoffman boulevard and Broadway, Elmhurst, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves

of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Hoffman boulevard and Broadway, Elmhurst, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty-five hundred dollars ($4,500) to provide means for the acquisition of a site in the vicinity of Grand and Columbia avenues, Maspeth, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Grand and Columbia avenues, Maspeth, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five hundred dollars ($3,500), to provide means for the acquisition of a site in the vicinity of Metropolitan avenue and Fresh Pond road, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Metropolitan avenue and Fresh Pond road, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty-five hundred dollars ($4,500), to provide means for the acquisition of a site in the vicinity of Myrtle avenue and Fresh Pond road, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Myrtle avenue and Fresh Pond road, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five hundred dollars ($7,500), to provide means for the acquisition of a site in the vicinity of Hoffman boulevard and Greenpoint avenue, Newtown, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Hoffman boulevard and Greenpoint avenue, Newtown, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding nine thousand dollars ($9,000), to provide means for the acquisition of a site in the vicinity of Jamaica and Union avenues, Woodhaven, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Jamaica and Union avenues, Woodhaven, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for an engine company and chief of battalion, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand dollars ($3,000), to provide means for the acquisition of a site in the vicinity of Flushing and 9th avenues, Whitestone, Borough of Queens, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Flushing and 9th avenues, Whitestone, Borough of Queens, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one thousand dollars ($1,000), to provide means for the acquisition of a site in the Concord section of Richmond Borough for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the Concord section of Richmond Borough for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars ($6,000), to provide means for the acquisition of a site in the vicinity of Pennsylvania and Riverside avenues, Borough of Brooklyn, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new building on site in the vicinity of Pennsylvania and Riverside avenues, Borough of Brooklyn, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty-five thousand dollars ($55,000), to provide means for the erection of a new building on site, 79th street, between 11th and 12th avenues, Borough of Brooklyn, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand seven hundred dollars ($3,700), to provide means for the acquisition of a site in the vicinity of Broad and Brook streets, Stapleton, Borough of Richmond, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by secton 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding

forty thousand dollars ($40,000), to provide means for rebuilding quarters of Engine Company 203 and the erection of a new building on site in the vicinity of Broad and Brook streets, Stapleton, Borough of Richmond, for the use of the Fire Department of The City of New York for a hook and ladder company, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eighty thousand dollars ($80,000), to provide means for the erection of a new fireproof building on site in some part of Central Park as agreed to by the Park Commissioner for the use of the Fire Department of The City of New York, for a fire alarm telegraph central office, Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding sixty thousand ($60,000), to provide means for the erection of a new fireproof building on site in part of the recently acquired park property in the vicinity of Eastern parkway and Prospect Park, as agreed to by the Park Commissioner, for the use of the Fire Department of The City of New York, for a fire alarm telegraph central office, Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection of a new fireproof building on part of a site located in the vicinity of St. Anns avenue, Roe street and Germain place for the use of the Fire Department of The City of New York, for a fire alarm telegraph central office, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for overhead circuits on the outskirts of the Borough of Brooklyn for the use of the Fire Department of The City of New York, in connection with the fire alarm telegraph system, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three hundred and ten thousand dollars ($310,000), to provide means for subways, subsidiaries, cables, wires, terminal posts and boxes, fire alarm signal boxes and apparatus for fire houses, for the use of the Fire Department of The City of New York, in connection with the fire alarm telegraph systems, as follows:

For the Borough of Manhattan	$150,000 00
For the Borough of The Bronx	100,000 00
For the Borough of Brooklyn	60,000 00
	$310,000 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twelve thousand dollars ($12,000), to provide means for extending circuits and for additional boxes, made necessary by the extension of the paid fire department in the Borough of Queens, for the use of the Fire Department of The City of New York in connection with the fire alarm telegraph system, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six hundred and seventy-five thousand one hundred and eighty dollars ($675,180), to provide means for the purchase of new appartus for the use of the Fire Department of The City of New York, as follows:

For the Borough of Manhattan	$132,140 00
For the Borough of The Bronx	130,260 00
For the Borough of Brooklyn	228,840 00
For the Borough of Queens	159,440 00
For the Borough of Richmond	24,500 00
	$675,180 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), to provide means for the construction and equipment of a new fire boat for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 21, 1910, which reads as follows:

> "Resolved, That the following resolution, adopted by the Board of Estimate and Apportionment March 16, 1906, and approved by the Board of Aldermen April 3, 1906:
>
> "'Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and twenty-thousand dollars ($120,000), to provide means for the procurement of new hose wagons, aerial trucks and steam fire engines for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and twenty thousand dollars ($120,000), the proceeds whereof to be applied to the purposes aforesaid.'
>
> —be amended to read as follows:
>
> "'Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and nineteen thousand nine hundred and thirty-nine dollars and six cents ($119,939.06), to provide means for the procurement of new hose wagons, aerial trucks and steam fire engines for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and nineteen thousand nine hundred and thirty-nine dollars and six cents ($119,939.06), the proceeds whereof to be applied to the purposes aforesaid.'"

—be and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 21, 1910, which reads as follows:

"Resolved, That the following resolution adopted by the Board of Estimate and Apportionment September 20, 1907, and approved by the Board of Aldermen October 29, 1907:

"'Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), for the purpose of providing means for the purchase of new apparatus for the use of the Fire Department, as follows:

For the Borough of Manhattan	$50,000 00
For the Borough of The Bronx	20,000 00
For the Borough of Brooklyn	40,000 00
For the Borough of Queens	15,000 00
	$125,000 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), the proceeds whereof to be applied to the purposes aforesaid.'"

—be amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and twenty-two thousand two hundred and fifteen dollars ($122,215), for the purpose of providing means for the purchase of new apparatus for the use of the Fire Department, as follows:

For the Borough of Manhattan	$50,000 00
For the Borough of The Bronx	20,000 00
For the Borough of Brooklyn	40,000 00
For the Borough of Queens	12,215 00
	$122,215 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and twenty-two thousand two hundred and fifteen dollars ($122,215), the proceeds whereof to be applied to the purposes aforesaid.'"

—be further amended to make the amounts read as follows:

For the Borough of Manhattan	$50,000 00
For the Borough of The Bronx	20,000 00
For the Borough of Brooklyn	40,000 00
For the Borough of Queens	12,500 00
—and the total amount	$122,500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-two thousand dollars ($22,000), in addition to the amounts heretofore authorized, to provide means for the acquisition of a site and the erection of a new building in the vicinity of Dyckman street and Broadway, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authoribed to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 21, 1910, which reads as follows:

> Resolved, That the following resolution, adopted by the Board of Estimate and Apportionment April 28, 1905, and approved by the Board of Aldermen May 16, 1905:
>
> "'Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), for the purpose of providing means for the construction and equipment of fire boats for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), the proceeds whereof to be applied to the purposes aforesaid.'"
>
> —be amended to read as follows:
>
> Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and seventeen thousand and ninety dollars and sixty-eight cents ($117,090.68), for the purpose of providing means for the construction and equipment of fire boats for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and seventeen thousand and ninety dollars and sixty-eight cents ($117,090.68), the proceeds whereof to be applied to the purposes aforesaid.

—be further amended to make the amount read one hundred and seventeen thousand and fifty dollars ($117,050).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and five thousand dollars ($105,000), to be used as follows: Thirty-five thousand dollars ($35,000) for the acquisition of a site in the vicinity of Southern boulevard and Westchester avenue, and seventy thousand dollars ($70,000) for the erection of a new building thereon, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and five thousand dollars ($105,000), to be applied to the purposes aforesaid,"

—be amended to make the amounts read nine thousand one hundred dollars ($9,100) for acquisition of the site, seventy thousand dollars ($70,000) for the erection of a new building, and the total seventy-nine thousand one hundred dollars ($79,100).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to be used as follows: Twenty-eight thousand dollars ($28,000) for the acquisition of a site in the vicinity of Wendover and Washington avenues, and seventy-two thousand dollars ($72,000) for the erection of a new building thereon, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars ($100,000), to be applied to the purposes aforesaid,"

—be amended to make the amounts read fifteen thousand dollars ($15,000) for acquisition of site, seventy-two thousand dollars ($72,000) for the erection of a new building, and the total eighty-seven thousand dollars ($87,000).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Alderman, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

> "'Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty-seven thousand dollars ($57,000), to be used as follows: Twelve thousand dollars ($12,000) for the acquisition of a site at High Bridge, Ogden avenue, adjoining Engine Company 68, and forty-five thousand dollars ($45,000) for the erection of a new building thereon, for the use of the Fire Department of The City of New York for quarters for hook and ladder companies, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding fifty-seven thousand dollars ($57,000), to be applied to the purposes aforesaid.'"

—be amended to make the amounts read three thousand and twenty dollars ($3,020) for acquisition of site, forty-five thousand dollars ($45,000) for the erection of a new building, and the total forty-eight thousand and twenty dollars ($48,020).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding fifty-five thousand dollars ($55,000), to be used as follows: Fifteen thou-

sand dollars ($15,000) for the acquisition of a site in the vicinity of Avenue C and East 16th street, Brooklyn, and forty thousand dollars ($40,000) for the erection of a new building thereoon, for the use of the Fire Department of The City of New York for quarters for engine and hook and ladder company, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided for by section 169 of the Greater New York Charter, to an amount not exceeding fifty-five thousand dollars ($55,000), to be applied to the purposes aforesaid."

—be amended to make the amounts read twelve thousand four hundred and fifty dollars ($12,450) for acquisition of site, forty thousand dollars ($40,000) for the erection of a new building, and the total fifty-two thousand four hundred and fifty dollars ($52,450).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), for the purpose of providing means for the acquisition of a site in the vicinity of Stuyvesant avenue and Macon street, Brooklyn, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding five thousand dollars ($5,000), the proceeds whereof to be applied to the purposes aforesaid."

—be amended to make the amount authorized three thousand nine hundred dollars ($3,900).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding fifteen thousand dollars ($15,000), for the purpose of providing means for improving, permanently bettering and equipping the Bureau of Horse and Equipment, and the apparatus repair building, St. Edwards and Bolivar streets, Brooklyn, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding fifteen thousand dollars ($15,000), the proceeds whereof to be applied to the purposes aforesaid."

—be amended to make the amount authorized five thousand dollars ($5,000).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-eight thousand dollars ($28,000), to be used as follows: Three thousand dollars ($3,000) for the acquisition of a site in the vicinity of Benedict avenue and 5th street, Woodhaven, and twenty-five thousand dollars ($25,000) for the erection of a new building thereon, for the use of the Fire Department of The City of New York, for quarters for engine and hook and ladder companies, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding twenty-eight thousand dollars ($28,000), to be applied to the purposes aforesaid."

—be amended to make the amounts read one thousand one hundred dollars ($1,100) for acquisition of site, twenty-five thousand dollars ($25,000) for the erection of a new building, and the total twenty-six thousand one hundred dollars ($26,100).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), for the purpose of providing means for improving, permanently bettering and equipping the building 78 and 80 Main street, Long Island City, quarters of Engine Company 162, for the use of the Fire Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding fifteen thousand dollars ($15,000), the proceeds whereof to be applied to the purposes aforesaid."

—be amended to make the amount read fifty dollars ($50).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirty-seven thousand dollars ($37,000), to be used as follows: Two thousand dollars ($2,000) for the acquisition of a site in the vicinity of present location of Hook and Ladder Company 102 at Stapleton, S. I., and thirty-five thousand dollars ($35,000) for the erection of a new building thereon for the use of the Fire Department of The City of New York for quarters for hook and ladder company, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding thirty-seven thousand dollars ($37,000), to be applied to the purposes aforesaid."

—be and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan. Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF PUBLIC CHARITIES.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Public Charities for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with the three schedules, A, B and C, included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

SCHEDULE "A."

New Authorizations of Corporate Stock.

To provide means for furnishing and equipping west wing of Kings County Hospital	$15,000 00
To provide means for the erection and equipment of an addition to the heating and power plant, Kings County Hospital	45,000 00
To provide means for the purchase and installation of electric feeders for power and light, Kings County Hospital	15,000 00
To provide means for an extension to main heating tunnel, Kings County Hospital	17,000 00
To provide means for the construction of sewer mains, Kings County Hospital	6,000 00
To provide means for the construction and equipment of a laundry, New York City Farm Colony, Borough of Richmond	80,000 00
To provide means for the construction and equipment of a kitchen, dining hall, service building and bakery at the New York City Farm Colony, Borough of Richmond	150,000 00
To provide means for the installation of additional boilers in heating plant, Metropolitan Hospital, Blackwells Island	25,000 00
To provide means for the construction and equipment of a boiler house and heating plant, Randalls Island	150,000 00
To provide means for the acquisition of a site and the construction of a new hospital to replace the present Cumberland Street Hospital, Borough of Brooklyn	425,000 00
To provide means for the construction and equipment of a staff house, Kings County Hospital	100,000 00
To provide means for the construction and equipment of an extension to the Psychopathic Ward, Kings County Hospital	75,000 00
To provide means for the construction and equipment of a dining hall and kitchen for tuberculosis patients, Metropolitan Hospital, Blackwells Island	125,000 00
To provide means for the construction and equipment of a dormitory for male employees, Metropolitan Hospital, Blackwells Island	100,000 00
To provide means for the construction and equipment of a laundry plant, Randalls Island	100,000 00
To provide means for the construction and equipment of a dormitory for female employees, City Hospital, Blackwells Island	50,000 00
To provide means for the construction and equipment of an addition to bakery, Kings County Hospital	25,000 00
To provide means for the erection and completion of the Sea View Hospital, Borough of Richmond, including construction, road building, grading, furniture, fixtures, architects' fees, etc	1,231,000 00
To provide means for the erection and equipment of an extension to East Tuberculosis Infirmary, Metropolitan Hospital, Blackwells Island	200,000 00
	$2,934,000 00

Schedule "B."

Additions to Existing Authorizations of Corporate Stock.

To provide means for completing the construction of a dormitory for female employees, Metropolitan Hospital, Blackwells Island....	$20,000 00
To provide means for the completion of the remodeling of the tower of the main building of the Metropolitan Hospital, Blackwells Island, into operating rooms	10,000 00
	$30,000 00

Schedule "C."

Rescindment of Existing Corporate Stock Authorizations.

Amend resolution of Board of Estimate and Apportionment and Board of Aldermen, adopted, respectively, February 9 and February 21, 1911, to provide means for the erection of new buildings, additions, improving and permanently bettering and equipping existing buildings and new steamboats, to read $1,214,000, instead of $1,216,710.22, thereby rescinding an amount of........	$2,710 22
Amend resolution of Board of Estimate and Apportionment and Board of Aldermen, adopted, respectively. December 1 and December 13, 1910, to provide means for the erection of new buildings, and for additions, improvements and permanently bettering existing buildings, to read $720,562.04, instead of $818,186.49, thereby rescinding an amount of	97,624 45
	$100,334 67

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for furnishing and equipping west wing, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty-five thousand dollars ($45,000), to provide means for the erection and equipment of an addition to the heating and power plant, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves

of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the purchase and installation of electric feeders for power and light, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventeen thousand dollars ($17,000), to provide means for an extension to main heating tunnel, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars ($6,000), to provide means for the construction of sewer mains, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eighty thousand dollars ($80,000), to provide means for the construction and equipment of a laundry at the New York City Farm Colony, Borough of Richmond, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding

one hundred and fifty thousand dollars ($150,000), to provide means for the construction and equipment of a kitchen, dining hall, service building and bakery at the New York City Farm Colony, Borough of Richmond, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the installation of additional boilers in heating plant, Metropolitan Hospital, Blackwells Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and fifty thousand dollars ($150,000), to provide means for the construction and equipment of a boiler house and heating plant, Randalls Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four hundred and twenty-five thousand dollars ($425,000), to provide means for the acquisition of a site and the construction of a new hospital to replace the present Cumberland Street Hospital, Borough of Brooklyn, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the construction and equipment of a staff house, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the construction and equipment of an extension to the Psychopathic Ward, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), to provide means for the construction and equipment of a dining hall and kitchen for tuberculosis patients, Metropolitan Hospital, Blackwells Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the construction and equipment of a dormitory for male employees, Metropolitan Hospital, Blackwells Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the construction and equipment of a laundry plant, Randalls Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the construction and equipment of a dormitory for female employees, City Hospital, Blackwells Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the construction and equipment of an addition to bakery, Kings County Hospital, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one million two hundred and thirty-one thousand dollars ($1,231,000), to provide means for the erection and completion of the Sea View Hospital, Borough of Richmond, under the jurisdiction of the Department of Public Charities, as follows:

Construction of—
- Nurses' Home and help's quarters
- Two ward pavilions.
- Staff house.
- Service tunnel and corridors.

Total for construction	$841,000 00
Road building, finished grading, tree planting, etc.	110,000 00
Furniture and fixtures	150,000 00
Architects' fees, contingencies and allowances	130,000 00
	$1,231,000 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the erection and equipment of an addition to east tuberculosis infirmary, Metropolitan Hospital, Blackwells Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), in addition to corporate stock heretofore authorized, to provide means for the construction of a dormitory for female employees, Metropolitan Hospital, Blackwells Island, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), in addition to corporate stock heretofore authorized, to provide means for remodeling the tower of the main building of the Metropolitan Hospital, Blackwells Island, into operating rooms, under the jurisdiction of the Department of Public Charities, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on February 9, 1911, and finally concurred in by the Board of Aldermen on February 21, 1911:

"Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment at a meeting held December 1, 1910, and adopted by the Board of Aldermen December 13, 1910, which reads as follows:

" 'Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment at a meeting held June 3, 1910, and adopted by the Board of Aldermen June 21, 1910, which reads as follows:

"'Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment at a meeting held December 6, 1907, and adopted by the Board of Aldermen December 31, 1907, which reads as follows:

"'Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 21, 1907, which reads as follows:

"'Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one million three hundred thousand dollars ($1,300,000), for the purpose of providing means for the erection of new buildings, additions, improving and permanently bettering and equipping buildings and new steamboats under the jurisdiction of the Commissioner of Public Charities, said sum to be expended as follows:

Staff House, Metropolitan Hospital, Blackwells Island	$80,000 00
Extension of Two Tuberculosis Infirmaries, Metropolitan Hospital, Blackwells Island	180,000 00
Morgue, Metropolitan Hospital, Blackwells Island	40,000 00
Improvement of Operating Rooms, Metropolitan Hospital, Blackwells Island	20,000 00
Elevators and Machinery, City Hospital, Blackwells Island	15,000 00
Hospital Pavilion, City Home, Blackwells Island	40,000 00
Addition to Laundry, City Home, Blackwells Island	30,000 00
Lodging House, Manhattan (additional appropriation)	50,000 00
New Steamboat	75,000 00
"Thomas S. Brennan" (steamboat), repairs to	25,000 00
Nurses' Home and Training School, Kings County Hospital	250,000 00
Alterations, etc., to Building Recently Vacated by New York State, Kings County Hospital	75,000 00
Nurses' Home, Children's Hospital, Randalls Island	200,000 00
Additional Dormitories, City Colony, Richmond	200,000 00
Pavilion for the Care of Insane, City Colony, Richmond	20,000 00
	$1,300,000 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one million three hundred thousand dollars ($1,300,000), the proceeds whereof to be applied to the purposes aforesaid.

—be and the same is hereby amended by striking therefrom the item "Improvement of operating rooms, Metropolitan Hospital, Blackwells Island, $20,000," and inserting in place thereof the item "Improvements of operating rooms, City Hospital, Blackwells Island, $20,000."

—be and the same is hereby amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one million two hundred and ninety-one thousand seven hundred and ten dollars and twenty-two cents ($1,291,710.22), for the purpose of providing means for the erection of new buildings, additions, improving and permanently bettering and equipping existing buildings and new steamboats under the jurisdiction of the Commissioner of Public Charities, said sum to be expended as follows:

Staff House, Metropolitan Hospital, Blackwells Island	$80,000 00
Extension of Two Tuberculosis Infirmaries, Metropolitan Hospital, Blackwells Island	180,000 00
Morgue, Metropolitan Hospital, Blackwells Island	40,000 00
Improvement of Operating Rooms, City Hospital, Blackwells Island	20,000 00
Elevators and Machinery, City Hospital, Blackwells Island	15,000 00
Hospital Pavilion, City Home, Blackwells Island	40,000 00
Addition to Laundry, City Home, Blackwells Island	30,000 00
Lodging House, Manhattan (additional appropriation)	50,000 00
New Steamboat	69,310 22
"Thomas S. Brennan" (steamboat), Repairs to	22,400 00
Nurses' Home and Training School, Kings County Hospital	250,000 00

Alterations, etc., to Building Recently Vacated by New York State, Kings County Hospital	75,000 00
Nurses' Home, Children's Hospital, Randalls Island	200,000 00
Additional Dormitories, City Colony, Richmond	200,000 00
Pavilion for the Care of Insane, City Colony, Richmond	20,000 00
	$1,291,710.22

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one million two hundred and ninety-one thousand seven hundred and ten dollars and twenty-two cents ($1,291,710.22), the proceeds whereof to be applied to the purposes aforesaid.

—be and the same is hereby amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one million two hundred and sixteen thousand seven hundred and ten dollars and twenty-two cents ($1,216,710.22), for the purpose of providing means for the erection of new buildings, additions, improving and permanently bettering and equipping existing buildings and new steamboats under the jurisdiction of the Commissioner of Public Charities, said sum to be expended as follows:

Staff House, Metropolitan Hospital, Blackwells Island	$80,000 00
Extension of Two Tuberculosis Infirmaries, Metropolitan Hospital, Blackwells Island, Construction of	168,000 00
Extension of Two Tuberculosis Infirmaries, Metropolitan Hospital, Blackwells Island, Furniture, etc	12,000 00
Morgue, Metropolitan Hospital, Blackwells Island	40,000 00
Improvement of Operating Rooms, City Hospital, Blackwells Island.	1,700 00
Elevators and Machinery, City Hospital, Blackwells Island	1,250 00
Hospital Pavilion, City Home, Blackwells Island, Construction of	35,000 00
Hospital Pavilion, City Home, Blackwells Island, Furniture	5,000 00
Additions to Laundry, City Home, Blackwells Island	30,000 00
Lodging House, Manhattan (additional appropriation)	50,000 00
New Steamboat	69,310 22
"Thomas S. Brennan" (steamboat), Repairs to	22,400 00
Nurses' Home and Training School, Kings County Hospital	250,000 00
Nurses' Home, Children's Hospital, Randalls Island	200,000 00
Additional Dormitories, City Colony, Richmond, Construction of	190,500 00
Additional Dormitories, City Colony, Richmond, Furniture, etc	9,500 00
Pavilion for the Care of Insane, City Colony, Richmond, Construction of	19,500 00
Pavilion for the Care of Insane, City Colony, Richmond, Furniture, etc.	500 00
Public Charities, Department of, Brooklyn, Kings County Hospital, Erection of New Wing (additional)	32,050 00
	$1,216,710.22

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one million two hundred and sixteen thousand seven hundred and ten dollars and twenty-two cents ($1,216,710.22), the proceeds whereof to be applied to the purposes aforesaid:

—be and the same is hereby amended by striking therefrom the line items:

Staff House, Metropolitan Hospital, Blackwells Island	$80,000 00
Morgue, Metropolitan Hospital, Blackwells Island	40,000 00

—and inserting in place thereof the line items:

Staff House, Metropolitan Hospital, Blackwells Island, Erection, Furniture and Equipment	80,000 00
Morgue, Metropolitan Hospital, Blackwells Island, Erection, Furniture and Equipment	40,000 00

—be and the same is hereby amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one million two hundred and fourteen thousand dollars ($1,214,000), for the purpose of providing means for the erection of new buildings, additions improving and permanently bettering and equipping existing buildings and new steamboats under the jurisdiction of the Commissioner of Public Charities, said sum to be expended as follows:

Staff House, Metropolitan Hospital, Blackwells Island, Erection, Furniture and Equipment	$80,000 00
Extension of Two Tuberculosis Infirmaries, Metropolitan Hospital, Blackwells Island, Construction of	168,000 00
Extension of Two Tuberculosis Infirmaries, Metropolitan Hospital, Blackwells Island, Furniture, etc.	12,000 00
Morgue, Metropolitan Hospital, Blackwells Island, Erection, Furniture and Equipment	40,000 00
Improvement of Operating Rooms, City Hospital, Blackwells Island	1,700 00
Elevators and Machinery, City Hospital, Blackwells Island	1,250 00
Hospital Pavilion, City Home, Blackwells Island, Construction of	35,000 00
Hospital Pavilion, City Home, Blackwells Island, Furniture	5,000 00
Additions to Laundry, City Home, Backwells Island	30,000 00
Lodging House, Manhattan (additional appropriations)	50,000 00
New Steamboat	66,600 00
"Thomas S. Brennan" (steamboat), Repairs to	22,400 00
Nurses' Home and Training School, Kings County Hospital	250,000 00
Nurses' Home, Children's Hospital, Randalls Island	200,000 00
Additional Dormitories, City Colony, Richmond, Construction of	190,500 00
Additional Dormitories, City Colony, Richmond, Furniture, etc.	9,500 00
Pavilion for the Care of Insane, City Colony, Richmond, Construction of	19,500 00
Pavilion for the Care of Insane, City Colony, Richmond, Furniture, etc.	500 00
Public Charities, Department of, Brooklyn, Kings County Hospital, Erection of New Wing (additional)	32,050 00
	$1,214,000 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporrate stock of The City of New York, to an amount not exceeding one million two hundred and fourteen thousand dollars ($1,214,000), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on December 1, 1910, and finally concurred in by the Board of Aldermen on December 13, 1910:

> Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment at a meeting held June 3, 1910, and adopted by the Board of Aldermen June 21, 1910, which reads as follows:
>
> > Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment at a meeting held November 5, 1909, and adopted by the Board of Aldermen November 23, 1909, which reads as follows:
> >
> > > Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 26, 1908, which reads as follows:
> > >
> > > Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one million one hundred and sixty-nine thousand dollars ($1,169,000), for the purpose of providing means for the erection of new buildings, and for additions, improvements and permanently bettering existing buildings under the jurisdiction of the Department of Public Charities, as follows:

Heating plant, Metropolitan Hospital, Blackwells Island, subtitle No. 1	$100,000 00
Furniture and fixtures New Nurses' Home, Metropoitan Hospital, Blackwells Island, subtitle No. 2	50,000 00
Pathological laboratory, City Hospital, Blackwells Island, subtitle No. 3	50,000 00

Furniture, etc., new buildings, City Hospital, Blackwells Island, subtitle No. 4	40,000 00
Hospital pavilion, City Home, Blackwells Island (additional), subtitle No. 5	25,000 00
Enclosed veranda for blind ward, City Home, Blackwells Island, subtitle No. 6	5,000 00
Additional heating, Children's Hospital, Randalls Island, subtitle No. 7	3,000 00
Tuberculosis Infirmary, Blackwells Island, subtitle No. 8	300,000 00
Electrict lighting, Metropolitan Hospital, Blackwells Island, subtitle No. 9	50,000 00
Laundry, Metropolitan Hospital, Blackwells Island (additional), subtitle No. 10	50,000 00
Pavilion, temporary care of patients, Metropolitan Hospital, Blackwells Island, subtitle No. 11	5,000 00
Repairs to sea wall, Blackwells Island, subtitle No. 12	5,000 00
Furniture, City Home, Blackwells Island, subtitle No. 13	1,500 00
Fire escapes, Children's Hospital, Randalls Island, subtitle No. 14	35,000 00
Furniture, Municipal Lodging House, subtitle No. 15	50,000 00
Dock waiting room, foot of East 53d street, subtitle No. 16	2,500 00
Repairs to annex building, Kings County Hospital, Brooklyn, subtitle No. 17	80,000 00
Plumbing in male branch of City Home, Brooklyn, subtitle No. 18	10,000 00
Plumbing in female branch of City Home, Brooklyn, subtitle No. 19	7,000 00
New Bradford Street Hospital, Brooklyn, subtitle No. 20	250,000 00
New Greenpoint Hospital, Brooklyn, subtitle No. 21	50,000 00
	$1,169,000 00

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one million one hundred and sixty-nine thousand dollars ($1,169,000), the proceeds whereof to be applied to the purposes aforesaid.

—be and the same is hereby amended by striking therefrom the figures "$50,000," following the subtitle No. 2, Furniture and Fixtures, New Nurses' Home, Metropolitan Hospital, Blackwells Island, and inserting in place thereof the figures "$48,830.90," and by striking therefrom the figures "$40,000," following the subtitle No. 4, Furniture, etc., New Buildings, City Hospital, Blackwells Island, and inserting in place thereof the figures "$41,169.10."

—be and the same is hereby amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eight hundred and ninety-eight thousand one hundred and eighty-six dollars and forty-nine cents ($898,186.49), for the purpose of providing means for the erection of new buildings and for additions, improvements and permanently bettering existing buildings under the jurisdiction of the Department of Public Charities, as follows:

Heating plant, Metropolitan Hospital, Blackwells Island, subtitle No. 1	$100,000 00
Furniture and fixtures, New Nurses' Home, Metropolitan Hospital, Blackwells Island, subtitle No. 2	35,830 90
Pathological laboratory, City Hospital, Blackwells Island, subtitle No. 3	50,000 00
Furniture, etc., new buildings, City Hospital, Blackwells Island, subtitle No. 4	41,113 11
Hospital pavilion, City Home, Blackwells Island (additional), subtitle No. 5	22,442 48
Enclosed veranda for blind ward, City Home, Blackwells Island, subtitle No. 6	3,500 00
Additional heating, Children's Hospital, Randalls Island, subtitle No. 7	3,000 00
Tuberculosis infirmary, Blackwells Island, subtitle No. 8	300,000 00
Electric lighting, Metropolitan Hospital, Blackwells Island, subtitle No. 9	50,000 00
Laundry, Metropolitan Hospital, Blackwells Island (additional), subtitle No. 10	50,000 00

Pavilion, temporary care of patients, Metropolitan Hospital, Blackwells Island, subtitle No. 11	3,000 00
Repairs to sea wall, Blackwells Island, subtitle No. 12	5,000 00
Furniture, City Home, Blackwells Island, subtitle No. 13	1,500 00
Fire escapes, Children's Hospital, Randalls Island, subtitle No. 14	35,000 00
Furniture, Municipal Lodging House, subtitle No. 15	48,300 00
Dock waiting room, foot of East 53d street, subtitle No. 16	2,500 00
Repairs to annex building, Kings County Hospital, Brooklyn, subtitle No. 17	80,000 00
Plumbing in male branch of City Home, Brooklyn, subtitle No. 18	10,000 00
Plumbing in female branch of City Home, Brooklyn, subtitle No. 19.	7,000 00
New Greenpoint Hospital, Brooklyn, subtitle No. 21	50,000 00
	$898,186 49

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding eight hundred and ninety-eight thousand one hundred and eighty-six dollars and forty-nine cents ($898,186.49), the proceeds whereof to be applied to the purposes aforesaid.

—be and the same is hereby amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of. corporate stock of The City of New York to an amount not exceeding eight hundred and eighteen thousand one hundred and eighty-six dollars and forty-nine cents ($818,186.49). for the purpose of providing means for the erection of new buildings and for additions, improvements and permanently bettering existing buildings, under the jurisdiction of the Department of Public Charities, as follows:

Heating plant, Metropolitan Hospital, Blackwells Island, subtitle No. 1.	$100,000 00
Furniture and fixtures, New Nurses' Home, Metropolitan Hospital, Blackwells Island, subtitle No. 2	35,830 90
Pathological laboratory, City Hospital, Blackwells Island, subtitle No. 3.	50,000 00
Furniture, etc., new buildings, City Hospital, Blackwells Island, subtitle No. 4	41,113 11
Hospital pavilion, City Home, Blackwells Island (additional), subtitle No. 5	22,442 48
Enclosed veranda for blind ward, City Home, Blackwells Island, subtitle No. 6	3,500 00
Additional heating, Children's Hospital, Randalls Island, subtitle No. 7.	3,000 00
Tuberculosis infirmary, Blackwells Island, Construction of, subtitle No. 8	287,000 00
Tuberculosis infirmary, Blackwells Island, furniture, etc., No. 8A	13,000 00
Electric lighting, Metropolitan Hospital, Blackwells Island, subtitle No. 9	50,000 00
Laundry, Metropolitan Hospital, Blackwells Island (additional), subtitle No. 10	50,000 00
Pavilion, temporary care of patients, Metropolitan Hospital, Blackwells Island, subtitle No. 11	3,000 00
Repairs to sea wall, Blackwells Island, subtitle No. 12	5,000 00
Furniture, City Home, Blackwells Island, subtitle No. 13	1,500 00
Fire-escapes, Children's Hospital, Randalls Island, subtitle No. 14	35,000 00
Furniture, Municipal Lodging House, subtitle No. 15	48,300 00
Dock waiting room, foot of East 53d street, subtitle No. 16	2,500 00
Plumbing in male branch of City Home, Brooklyn, subtitle No. 18	10,000 00
Plumbing in female branch of City Home, Brooklyn, subtitle No. 19	7,000 00
New Greenpoint Hospital, Brooklyn, subtitle No. 21	50,000 00
	$818,186 49

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding eight hundred and eighteen thousand one hundred and eighty-six dollars and forty-nine cents ($818,186.49), the proceeds whereof to be applied to the purposes aforesaid.

—be and the same is hereby amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seven hundred and twenty thousand five hundred and sixty-two dollars and four cents ($720,562.04), for the purpose of providing means for the erection of new buildings, and for additions, improvements aand permanently bettering existing buildings under the jurisdiction of the Department of Public Charities, as follows:

Heating plant, Metropolitan Hospital, Blackwells Island, subtitle No. 1	$100,000 00
Furniture and fixtures, New Nurses' Home, Metropolitan Hospital, Blackwells Island, subtitle No. 2	35,830 00
Pathological laboratory, City Hospital, Blackwells Island, subtitle No. 3	2,375 55
Furniture, etc., new buildings, City Hospital, Blackwells Island, subtitle No. 4	41,113 11
Hospital pavilion, City Home, Blackwells Island (additional), subtitle No. 5	22,442 48
Enclosed veranda for blind ward, City Home, Blackwells Island, subtitle No. 6	3,500 00
Additional heating, Children's Hospital, Randalls Island, subtitle No. 7	3,000 00
Tuberculosis infirmary, Blackwells Island, construction of, subtitle No. 8	287,000 00
Tuberculosis infirmary, Blackwell's Island, furniture, etc., subtitle No. 8A	13,000 00
Electric lighting, Metropolitan Hospital, Blackwells Island, subtitle No. 9	50,000 00
Laundry, Metropolitan Hospital, Blackwells Island (additional), subtitle No. 10	50,000 00
Pavilion, temporary care of patients, Metropolitan Hospital, Blackwells Island, ubtitle No. 11	3,000 00
Repairs to sea wall, Blackwells Island, subtitle No. 12	5,000 00
Furniture, City Home, Blackwells Island, subtitle No. 13	1,500 00
Fire-escapes, Children's Hospital, Randalls Island, subtitle No. 14	35,000 00
Furniture, Municipal Lodging House, subtitle No. 15	48,300 00
Dock waiting room, foot of East 53d street, subtitle No. 16	2,500 00
Plumbing in male branch of City Home, Brooklyn, subtitle No. 18	10,000 00
Plumbing in female branch of City Home, Brooklyn, subtitle No. 19	7,000 00
	$720,562 04

—and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding seven hundred and twenty thousand five hundred and sixty-two dollars and four cents ($720,562.04), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF PARKS, BOROUGHS OF MANHATTAN AND RICHMOND.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Parks, Borough of Manhattan and Richmond, for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with the three Schedules, A, B and C, included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A," New Authorizations of Corporate Stock.

Comfort Station, Central Park, Alteration of	$15,000 00
Preliminary Work, All Parks	5,000 00
Sewer from Terrace Bridge, Construction of	3,500 00
Paving Drives, Central Park	100,000 00
Water Supply, Central Park, Installation of	40,000 00
Paving 65th Street, Transverse Road	25,000 00
Paving 96th Street, Transverse Road	25,000 00
Drainage System, Comfort House	3,000 00
Comfort Station, Cooper Square	25,000 00
Playhouses Throughout City	50,000 00
Bulkhead, Harlem River Drive	110,000 00
John Jay Park, Improvement of Street	8,500 00
Riverside Park, Improvement of	10,000 00
Firemen's Memorial, Riverside Drive	40,000 00
Carl Schurz Memorial, Morningside Park	25,000 00
Seventh Avenue Parkway, General Improvement of	75,000 00
	$560,000 00

Metropolitan Museum of Art.

New Boiler Plant, Erection of	$315,000 00
New Cases, Purchase of	15,000 00
Miscellaneous Equipment Throughout Buildings	75,000 00
	$405,000 00

New York Aquarium.

Erection of Foundations for Wings	$200,000 00

American Museum of Natural History.

Foundation for Extension, Erection of	$200,000 00
Miscellaneous, for Equipment Throughout Buildings	75,000 00
	$275,000 00

Schedule "B" Additions to Existing Authorization of Corporate Stock.

John Jay Park, Completion of	$30,000 00
Metropolitan Museum of Art, Completion of Extension	224,000 00
	$254,000 00

Schedule "C," Rescindment of Existing Corporate Stock.

Rescind resolutions of the Board of Estimate and Apportionment adopted June 3, 1910, and concurred in by the Board of Aldermen June 14, 1910, providing $100,000 for the construction and equipping of playground in Central Park, Borough of Manhattan.

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the alteration and improvement of comfort station near ball ground in Central Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for preliminary work necessary in preparation of plans and specifications for improvements requiring corporate stock authorizations, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand five hundred dollars ($3,500), to provide means for the construction of a sewer from the Terrace Bridge to connect with sewer near boathouse, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the paving of drives in Central Park with a bituminous pavement, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty thousand dollars ($40,000), to provide means for the installation of a water supply and irrigating system where required in Central Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the improvement of 65th street transverse road, setting curb, paving, etc., under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the improvement of 96th street transverse road, setting curb, paving, etc., under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand dollars ($3,000), to provide means for the instalation of drainage and water supply system in comfort station in Central Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shal have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the erection and equipment of a comfort station in Cooper square, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the erection and equipment of playhouses and toilet facilities in playgrounds throughout the City, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and ten thousand dollars ($110,000), to provide means for the construction of stone bulkhead where required along easterly boundary of public driveway between 155th street and Dyckman street, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eight thousand five hundred dollars ($8,500), to provide means for the general improvement of street on westerly side of John Jay Park between 76th and 78th streets, paving, sidewalks, etc., under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for the completion of addition to

Riverside Park, between 122d street and Claremont place, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty thousand dollars ($40,000), to provide means for the erection of a foundation for the Firemen's Memorial on Riverside drive, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the erection of the Carl Schurz Memorial at 116th street and Morningside Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the general improvement of the 7th avenue parkway, from Central Park to the Harlem River, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of

the issue of corporate stock of The City of New York to an amount not exceeding three hundred and fifteen thousand dollars ($315,000), to provide means for the erection and equipment of a boiler plant for the Metropolitan Museum of Art, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves ot the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the purchase of museum cases for the Metropolitan Museum of Art, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves ot the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the purchase of furniture and fittings for equipment and construction of permanent improvements for the American Museum of Art, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the construction of the foundation and walls of the wings for the New Aquarium Building in Battery Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the construction of a foundation for the southeast wing and court building of the American Museum of Natural History, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Chartre, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforsaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000) to provide means for the purchase of cases, bookstacks, furniture, etc., for equipment, and the construction of permanent improvements for the American Museum of Natural History, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000), in addition to corporate stock heretofore authorized, to provide means for the improvement and completion of John Jay Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and twenty-four thousand dollars ($224,000), in addition to corporate stock heretofore authorized, to provide means for the completion and equipment of Extension H of the Metropolitan Museum of Art, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and finally concurred in by the Board of Aldermen on June 14, 1910:

> "Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the construction and equipping of playground in Central Park, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and he is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars ($100,000), the proceeds whereof to be applied to the purposes aforesaid."

—be and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The President of the Borough of Richmond requested that an appropriation be made for the improvement of Silver Lake Park, in the Borough of Richmond.

The request was referred to the Corporate Stock Budget Committee for a report.

DEPARTMENT OF PARKS, BOROUGHS OF BROOKLYN AND QUEENS.

City of New York, Department of Finance, Comptroller's Office, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Parks, Boroughs of Brooklyn and Queens, for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with the three schedules, A, B and C, included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A"—New Authorizations of Corporate Stock.

Forrest Park—improvement of	$100,000 00
Ocean Parkway, constructing sidewalks	17,540 00
Ocean Parkway, raising main road	20,000 00
Prospect Park.	
New Comfort Station, erection of	20,000 00
Water Supply System, installation of	75,000 00
New Workshops and Storehouse, erection of	75,000 00
Plaza, at 15th street, improvement of	20,000 00
Triangle at Pitkin avenue, improvement of	6,000 00
Fort Greene Park, improvement of	66,822 00
Sunset Park, completion of	25,560 00
Linden Park, improvement of	12,800 00
City Park, Shelter House, erection of	20,000 00
Highland Park, improvement of	45,000 00
Linton Park, Comfort House, erection of	7,500 00
Borough Hall Park, improvement of	7,080 00
Kings Park, Comfort House, erection of	10,000 00

McCarren Park, improvement of Plot 2	50,000 00
Preliminary work, all parks	5,000 00
	$583,302 00

Museums.

Central Museum, erection of addition	$450,000 00
Central Museum, Architect's and Engineer's fees	11,000 00
Botanic Garden and Arboretum, greenhouse, erection of	17,000 00
Botanic Garden and Arboretum, Instruction Building, erection of	33,000 00
Botanic Garden and Arboretum, permanent improvements	40,000 00
Botanic Garden and Arboretum, roadways, walks, etc	30,000 00
Children's Museum, Bedford Park	92,500 00
	$673,500 00

Schedule "C"—Amendment of Existing Corporate Stock Authorization.

Amend resolution of the Board of Estimate and Apportionment adopted June 3, 1910, and concurred in by the Board of Aldermen on June 14, 1910, to provide for the construction and excavation of a lagoon at Dyker Beach Park, Borough of Brooklyn, to read $3,000 instead of $100,000, thereby rescinding an amount of	$97,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for construction of roadways, paths, fences, water supply systems, etc., in Forrest Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventeen thousand five hundred and forty dollars ($17,540), to provide means for laying sidewalks on Ocean parkway, from Prospect Park to Coney Island, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for raising Ocean parkway, south of Coney Island Creek, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the erection of a new comfort station in Prospect Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter; the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the installation of a water supply and drainage system in Prospect Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the erection of a new storehouse and workshop, and equipment, in Prospect Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the improvement of the plaza at 15th street entrance of Prospect Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars (\$6,000), to provide means for the improvement of the triangle at East New York and Pitkin avenues, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding sixty-six thousand eight hundred and twenty-two dollars (\$66,822), to provide means for the improvement of the interior of Fort Greene Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand five hundred and sixty dollars (\$25,560), to provide means for the completion of Sunset Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twelve thousand eight hundred dollars (\$12,800), to provide means for the improvement of Linden Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the erection and equipment of a shelter house in City Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty-five thousand dollars ($45,000), to provide means for the general improvement of Highland Park, including the erection of a shelter and comfort house, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seven thousand five hundred dollars ($7,500), to provide means for the erection of a comfort house in Linden Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seven thousand and eighty dollars ($7,080), to provide means for improving Borough

Hall Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for the erection of a comfort house in Kings Park, Jamaica, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the improvement of Plot 2, McCarren Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for preliminary work necessary in preparation of plans and specifications for improvements requiring corporate stock authorizations, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four hundred and fifty thousand dollars ($450,000), to provide means for the construction of the fourth section of the Central Museum Building, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eleven thousand dollars ($11,000), to provide means for Architects' and Engineers' fees in connection with the construction of Section 4 of the Central Museum Building, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 178 of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding seventeen thousand dollars ($17,000), to provide means for the construction of greenhouses in the Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 178 of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-three thousand dollars ($33,000), to provide means for the construction and equipment of an instruction building, in the Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 178 of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty thousand dollars

($40,000), to provide means for grading, draining, piping, soil improvement and water course in Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 178 of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000), to provide means for the construction of roadways, walks, stone steps and paving in the Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 120 of the Laws of 1907, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ninety-two thousand five hundred dollars ($92,500), to provide means for the construction and equipment of the Children's Museum, including Engineers' and Architects' fees, Bedford Park, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the following resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and finally concurred in by the Board of Aldermen on June 14, 1910,

"Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the construction and excavation of a lagoon at Dyker Beach Park, Borough of Brooklyn, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and he is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred thousand dollars ($100,000), the proceeds whereof to be applied to the purpose aforesaid,"

—be amended to make the amount authorized three thousand dollars ($3,000).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF PARKS, BOROUGH OF THE BRONX.

Department of Finance, City of New York, Comptroller's Office, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Parks, Borough of The Bronx, for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with the three schedules "A," "B" and "C" included herein.

Schedule "A" includes our recommendation for all new authorizations of corporate stock, other than additions to existing authorizations.

Schedule "B" includes our recommendation for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendation for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A"—New Authorizations of Corporate Stock.

Road, Botanical Garden to Bronx and Pelham Parkway, Construction of	$10,000 00
Bridge over Lake, Bronx Park, Erection of	26,000 00
Grading and Filling Lands east of Music Pavilion	10,000 00
St. Mary's Park Improvement, South East Part	10,000 00
Crotona Park Improvement, East and West Part	10,000 00
Macombs Dam Park, Drainage	6,000 00
Echo Park, Improvement of	8,000 00
Preliminary Work for Park Improvements	5,000 00
Railings, all parks	5,000 00
Trees and Shrubs, Restocking Nursery	5,000 00
Fencing Boundaries, all parks	10,000 00
Connecting Driveway, Grand Boulevard to Mosholu Parkway	8,000 00
Comfort Stations and Bath Houses, Pelham Bay Park	10,000 00
Improving Shore Front, Pelham Bay Park	5,000 00
Draining Meadow Land, Pelham Bay Park	5,000 00
Comfort Station, Van Cortlandt Park, Erection of	12,000 00
Improvement of Rock Cut, Van Cortlandt Park	5,000 00
Draining Swamp, Van Cortlandt Park	6,000 00
Installation of Water Supply, in Nursery	5,000 00
Colonial Mansion, Erection of Extension and Heating Plant	28,000 00
	$189,000 00

Zoological Garden.

Public Service Building, Erection of	$30,000 00
Power Plant, Erection of	35,000 00
Zebra House Yard, Construction of	15,000 00
Winter House for Pelicans	5,000 00
Rocking Stone Restaurant, Extension	5,000 00
Construction of New Walks	15,000 00
Miscellaneous (including fencing, yards, cages, small installations, planting trees and other permanent improvements)	35,000 00
Development of Park east of Bronx River, (including erection of pavilion)	15,000 00
	$155,000 00

Botanical Garden.

Boundary Fence, Construction of	$20,000 00
New Walks and Railings, Construction of	6,000 00
Rock and Earth Excavations within Grounds	4,500 00
Masonry Retaining Walls and Steps, Construction of	1,300 00
Pergola, Erection of	2,500 00
New Cases for Books, Museum Building	3,000 00
Additional Greenhouse, Erection of	12,500 00
	$49,800 00

Schedule "B"—Additions to Existing Authorizations of Corporate Stock.

DeVoe Park, Construction of	$8,000 00
Sewer from Van Cortlandt Park to Broadway, Completion of	4,000 00
Drinking Fountains in Small Parks	3,000 00
	$15,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

Thomas J. Higgins, Esq., Commissioner of Parks, Borough of The Bronx, appeared and requested that the second item in Schedule "A" of the report, "Bridge Over Lake, Bronx Park, Erection of, $26,000," be eliminated therefrom and that the appropriation recommended therefor, i. e., $26,000, be made to apply to the rebuilding and widening of City Island Road, from Bartow Station to City Island Bridge.

The request was granted.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for Completion of Road, from Botanical Garden to Bronx and Pelham Parkway, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-six thousand dollars ($26,000), to provide means for rebuilding and widening the City Island Road from Bartow Station to City Island Bridge, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for Raising and Improving Low Lands East of Music Pavilion, Bronx Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for Improvement of Southerly Portion of St. Mary's Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for Improvement of Easterly and Westerly portion of Crotona Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars ($6,000), to provide means for Drainage System for Low Lands in Macombs Dam Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eight thousand dollars ($8,000), to provide means for General Improvement of Echo Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for Preliminary Work Necessary in Preparation of Plans and Specifications for Improvements Requiring Corporate Stock

Authorizations, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for Railings Around Small Parks and along Paths and Roads, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for the Purchase of Trees and Shrubs, Planting and Restocking Nursery, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for Fencing the Boundaries of Parks, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eight thousand dollars ($8,000), to provide means for the Construction of Connecting Driveway between Grand Boulevard and Mosholu Parkway, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for Erection of Comfort Station and Additional Bathhouses, Pelham Bay Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for Improving Shore Front and Increasing Bathing Beaches, Pelham Bay Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for Draining Meadow Land in Pelham Bay Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twelve thousand dollars ($12,000), to provide means for Erection of Comfort Station near Van Cortlandt Mansion, Van Cortlandt Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for Improvement of Rock Cut on Broadway Side of Van Cortlandt Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars ($6,000), to provide means for Drainage of Swamp Lands other than those South of Colonial Garden, Van Cortlandt Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for a Water Supply System for Nursery, Van Cortlandt Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-eight thousand dollars ($28,000), to provide means for Erection of New Addition and Installing New Heating Plant, Colonial Mansion, Van Cortlandt Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty thousand dollars ($30,000), to provide means for the Erection and Equipment of a Public Service Building, in the New York Zoological Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for the Erection and Equipment of a Power Plant and Workshop Building, in the New York Zoological Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the Construction of a Zebra House Yard in the New York Zoological Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for the Erection and Equipment of a Winter House for Pelicans in the New York Zoological Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for the Erection of an Extension to the Rocking Stone Restaurant in the New York Zoological Park, under the jurisdiction of the Department of, Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the Construction of New Walks, in the New York Zoological Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for the Construction of Fences, Guard Rails, Yards, Planting Trees and Other Permanent Improvements, in the New York Zoological Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, .and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid:

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the Development of Park

East of Bronx River, Including the Erection of Pavilion, in the New York Zoological Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the Construction of a Boundary Fence, in the New York Botanical Garden, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesasid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding six thousand dollars ($6,000), to provide means for Construction of New Walks, and Railings along Walks in the New York Botanical Garden, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four thousand five hundred dollars ($4,500), to provide means for Rock and Earth Excavation and Disposal within the Grounds of the New York Botanical Garden, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of

the issue of corporate stock of The City of New York to an amount not exceeding one thousand three hundred dollars ($1,300), to provide means for Construction of Masonry Retaining Walls at Boulevard Entrance and Masonry Steps at Power House, in the New York Botanical Garden, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two thousand five hundred dollars ($2,500), to provide means for the Erection of a Pergola, in the New York Botanical Garden, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand dollars ($3,000), to provide means for the Purchase of New Cases for Books and Specimens for the Museum Building in the New York Botanical Garden, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twelve thousand five hundred dollars ($12,500), to provide means for the Erection of an Additional Greenhouse, in the New York Botanical Garden, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding eight thousand dollars ($8,000), in addition to corporate stock heretofore authorized, to provide means for the completion of De Voe Park, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four thousand dollars ($4,000), in addition to corporate stock heretofore authorized, to provide means for Completing the Construction of Drain from Van Cortlandt Park to Sewer in Broadway, under the jurisdicition of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding three thousand dollars ($3,000), in addition to corporate stock heretofore authorized, to provide means for Construction of Drinking Fountains in various Parks, under the jurisdiction of the Department of Parks, Borough of The Bronx, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF HEALTH.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment

Gentlemen—We transmit herewith our report upon the requests made by the Department of Health for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with the two schedules "A" and "B," included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "A"—New Authorizations of Corporate Stock.

To provide for the construction of an underground tunnel at Willard Parker and Reception Hospitals, Manhattan	$35,000 00
To provide for the construction of a new boiler house and tunnel system at Riverside Hospital, Borough of The Bronx	90,000 00

To provide for the construction of a dormitory for female help, maids and matrons, at Riverside Hospital, Borough of The Bronx..........	90,000 00
To provide for the construction of an extension to the present Nurses' Home, at Riverside Hospital, Borough of The Bronx................	65,000 00
To provide for the construction of two concrete pavilions for tuberculosis patients, at Riverside Hospital, Borough of The Bronx...............	110,000 00
To provide for the construction of a concrete pavilion, to be used as a hospital for venereal diseases at Riverside Hospital, Borough of The Bronx	55,000 00
To provide for improving roads and new roads on North Brother Island, Riverside Hospital, Borough of The Bronx..........................	5,000 00
To provide for the purchase of lighting fixtures, furniture, and other equipment for the operation and maintenance of two new concrete pavilions, at Riverside Hospital, Borough of The Bronx..............	15,000 00
To provide for the construction of a kitchen building, including help's dining room and dormitories, at Kingston Avenue Hospital, Borough of Brooklyn	75,000 00
To provide for the construction of sewer lines and outside tanks, at Kingston Avenue Hospital, Borough of Brooklyn.....................	25,000 00
To provide for the construction of a gravity water system, including completion of reservoir, at the Tuberculosis Sanatorium, Otisville, N. Y.	50,000 00
To provide for the construction of shacks and other structures, proposed for erection by departmental labor, at Otisville, N. Y., on the grounds of the Tuberculosis Sanatorium...........................	75,000 00
To provide for the construction of a hospital for contagious diseases in the Borough of The Bronx..	125,000 00
To provide for the construction of a hospital for contagious diseases in the Borough of Queens...	125,000 00
	$940,000 00

Schedule "B"—Additions to Existing Authorizations of Corporate Stock

To provide for the erection of a brick and stone pavilion for measles patients in the Willard Parker Hospital, for the Department of Health, at the foot of East Sixteenth street, Borough of Manhattan........	$60,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for the construction of an underground tunnel at Willard Parker and Reception Hospitals, Manhattan, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ninety thousand dollars ($90,000), to provide means for the construction of a new boiler house and tunnel system at Riverside Hospital, Borough of The Bronx, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ninety thousand dollars ($90,000), to provide means for the construction of a dormitory for female help, maids and matrons, at Riverside Hospital, Borough of The Bronx, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding sixty-five thousand dollars ($65,000), to provide means for the construction of an extension to the present Nurses' Home, at Riverside Hospital, Borough of The Bronx, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and ten thousand dollars ($110,000), to provide means for the construction of two concrete pavilions for tuberculosis patients at Riverside Hospital, Borough of The Bronx, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty-five thousand dollars ($55,000), to provide means for the construction of a concrete pavilion at Riverside Hospital, Borough of The Bronx, to be used as a hospital for venereal diseases, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for improving roads and new roads on North Brother Island, Riverside Hospital, Borough of The Bronx, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the purchase of lighting fixtures, furniture and other equipment for the operation and maintenance of two new concrete pavilions, at Riverside Hospital, Borough of The Bronx, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the construction of a kitchen building, including help's dining room and dormitories, at Kingston Avenue Hospital, Borough of Brooklyn, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the construction of sewer lines and outside tanks at Kingston Avenue Hospital, Borough of Brooklyn, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000), to provide means for the construction of a gravity water system, including completion of reservoir, at the Tuberculosis Sanatorium, Otisville, N. Y., under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the construction of shacks and other structures, proposed for erection by departmental labor, at Otisville, N. Y., on the grounds of the Tuberculosis Sanatorium, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), to provide means for the construction of a hospital for contagious diseases in the Borough of The Bronx, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves

of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and twenty-five thousand dollars ($125,000), to provide means for the construction of a hospital for contagious diseases in the Borough of Queens, under the jurisdiction of the Department of Health, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding sixty thousand dollars ($60,000), in addition to corporate stock heretofore authorized to provide means for the erection of a brick and stone pavilion for the Department of Health, at the foot of East 16th street, Borough of Manhattan, to accommodate measles patients, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF BELLEVUE AND ALLIED HOSPITALS.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Bellevue and Allied Hospitals for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with Schedule "A" included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock.

Schedule "A"—New Authorizations of Corporate Stock.

To provide for the erection of Pavilions I and K, including Architects' fees, in connection with the construction and equipment of the new Bellevue Hospital	$1,750,000 00
To provide for the construction of a new Dispensary at Gouverneur Hospital, including Architects' fees	200,000 00
To provide for the construction of a Nurses' Residence for Harlem Hospital, including Architects' fees	175,000 00
To provide for the construction of an additional ward wing at Harlem Hospital, including Architects' fees	250,000 00
To provide for the construction of roof ward and thirteen additional small balconies on Pavilions A and B, in connection with the construction and equipment of the new Bellevue Hospital	49,500 00
To provide for the construction of a roof ward at Fordham Hospital	35,000 00
To provide for the construction of a Children's Ward at Gouverneur Hospital	10,000 00
	$2,469,500 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one million seven hundred and fifty thousand dollars ($1,750,000), to provide means for the erection of Pavilions I and K, including Architects' fees, in connection with the construction and equipment of the New Bellevue Hospital, under the jurisdiction of the Board of Trustees, Bellevue and Allied Hospitals, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000) to provide means for the construction of a new dispensary at Gouverneur Hospital, including Architects' fees, under the jurisdiction of the Board of Trustees, Bellevue and Allied Hospitals, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and seventy-five thousand dollars ($175,000), to provide means for the construction of a Nurses' Residence for Harlem Hospital, including Architects' fees, under the jurisdiction of the Board of Trustees, Bellevue and Allied Hospitals, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred and fifty thousand dollars ($250,000), to provide means for the construction of an additional ward wing at Harlem Hospital, including Architects' fees, under the jurisdiction of the Board of Trustees, Bellevue and Allied Hospitals, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty-nine thousand five hundred dollars ($49,500), to provide means for the construction of roof ward and thirteen (13) additional small balconies on Pavilions A and B in connection with the construction and equipment of the new Bellevue Hospital, under the jurisdiction of the Board of Trustees, Bellevue and Allied Hospitals, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for the construction of a roof ward at Fordham Hospital, under the jurisdiction of the Board of Trustees, Bellevue and Allied Hospitals, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ten thousand dollars ($10,000), to provide means for the construction of a Children's Ward at Gouverneur Hospital, under the jurisdiction of the Board of Trustees, Bellevue and Allied Hospitals, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

POLICE DEPARTMENT.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Police Department for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with Schedule "A," included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock.

Schedule "A"

Acquisition of land and building of new Station House, Prison and Stable for the Fifteenth Precinct	$200,000 00
Acquisition of land and building of new Station House, Prison and Stable for the Eighteenth Precinct	200,000 00
Acquisition of land and building of Station House, Prison and Stable for new Precinct in the Borough of The Bronx	200,000 00
	$600,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the acquisition of land and building a new Station House, Prison and Stable for the Fifteenth (15th) Precinct, under the jurisdiction of the Police Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the acquisition of land and building a new Station House for the Eighteenth (18th) Precinct, under the jurisdiction of the Police Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the acquisition of land and building a Station House, Prison and Stable, for a new Precinct in the Borough of The Bronx, to be formed from parts of the present Sixty-third and Sixty-fifth Precincts, under the jurisdiction of the Police Department of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF CORRECTION.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the request made by the Department of Correction for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolution in accordance with schedule.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "A"—New Authorizations.

Fireproofing Workhouse, Blackwells Island	$100,000 00

We recommend the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, Persident, Borough of Manhattan; Corporate Stock Budget Committee.

At the suggestion of the Comptroller, the matter of an appropriation for a Reformatory for Male Misdemeanants, on Harts Island, was referred to the Corporate Stock Budget Committee for a report.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for fireproofing Workhouse, Blackwells Island, under the jurisdiction of the Department of Correction, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

CARNEGIE LIBRARY SITES.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the agent for Carnegie Library Sites for corporate stock to be authorized in 1911.

Our recommendations are embraced in the following resolutions, which are drawn in accordance with Schedule "A."

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "A"—New Authorizations.

5 sites, Boroughs of Manhattan and Bronx	$120,000 00
2 sites, Borough of Brooklyn	36,000 00
1 site, Borough of Queens	15,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 580, Laws of 1901, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred and twenty thousand dollars ($120,000), to provide means for the acquisition of five (5) sites for Carnegie Libraries in the Boroughs of Manhattan and The Bronx, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to th amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 580, Laws of 1901, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-six thousand dollars ($36,000), to provide means for the acquisition of two (2) sites for Carnegie Libraries in the Borough of Brooklyn, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to th purposs aforsaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 580, Laws of 1901, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the acquisition of one (1) site for a Carnegie Library in the Borough of Queens, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

NORMAL COLLEGE OF THE CITY OF NEW YORK.

City of New York, Department of Finance, Comptroller's Office, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Board of Trustees, the Normal College of The City of New York, for corporate stock to be authorized in 1911.

Our recommendation is embraced in the attached resolution, which is drawn in accordance with Schedule "B," included herein.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "B."

Additions to Existing Corporate Stock Authorizations, the Normal College of The City of New York.

Code Number.	Title of Account.	Original Resolution.	Additional Authorization.
C-NC-1.	*The Normal College of The City of New York, Erection and Equipment of New Buildings	$500,000 00	....
	†For Heating Equipment	37,250 00	....
	For Equipment, including Electric Work, Elevator and Furniture	....	$91,380 00
		$537,250 00	$91,380 00

*Original resolution, adopted by the Board of Estimate and Apportionment April 16, 1909; concurred in by the Board of Aldermen May 11, 1909.

†Original Resolution, adopted by the Board of Estimate and Apportionment June 3, 1910; concurred in by the Board of Aldermen June 14, 1910.

We recommend the adoption of the attached resolution.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding ninety-one thousand three hundred and eighty dollars ($91,380), to provide means for the interior construction and equipment of the Normal College of The City of New York, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

BROOKLYN DISCIPLINARY TRAINING SCHOOL FOR BOYS.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith for adoption resolution embracing our recommendation for new authorizations of corporate stock for the Brooklyn Disciplinary Training School for Boys for the year 1911.

The Brooklyn Disciplinary Training School for Boys.

For site for new building	$75,000 00

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, and chapter 235 of the Laws of 1896, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the acquisition of a new site for the Brooklyn Disciplinary Training School for Boys, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF STREET CLEANING.

City of New York, Department of Finance, Comptroller's Office, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Street Cleaning for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with the two schedules, "A" and "C," included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A"—New Authorizations.

Covered dumping board at the foot of Clinton street, East River, Manhattan	$13,000 00
Covered dumping board at the foot of Lincoln avenue and Harlem river, The Bronx	7,000 00
	$20,000 00

Schedule "C"—Amendments of Existing Corporate Stock Authorizations—Rescindments.

C-DS-2.—Acquisition of site for and construction of stable, Brooklyn....	$5,538 00
C-DS-2a.—Construction of dumping boards in the Borough of Manhattan	4,250 00
C-DS-2b.—Construction of dumping boards in the Borough of Brooklyn.	2,930 37
C-DS-7.—Installing elevator at Stable "A"	2,914 00
	$15,632 37

We recommend the adoption of the attached resolutions.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 546 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirteen thousand dollars ($13,000), to provide means for the construction of a covered dumping board at the foot of Clinton street and East River, Manhattan, under the jurisdiction of the Department of Street Cleaning, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 546 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding seven thousand dollars ($7,000), to provide means for the construction of a covered dumping board at the foot of Lincoln avenue and Harlem river, The Bronx, under the jurisdiction of the Department of Street Cleaning, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, and approved by the Board of Aldermen on June 21, 1910, which reads as follows:

"Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment at a meeting held February 19, 1904, and deemed to be passed by the Board of Aldermen, pursuant to the provisions of section 48 of the Greater New York Charter, as amended, on April 2, 1904, which reads as follows:

"'Whereas, The Board of Estimate and Apportionment, on June 5, 1903, adopted a resolution, subject to the concurrence of the Board of Aldermen, authorizing the issue of corporate stock to an amount not exceeding three hundred and seventy thousand dollars ($370,000), to provide means for the construction of a stable on the block bounded by Flushing avenue, Graham street, Kent avenue and Little Nassau street, Borough of Brooklyn;

"'Whereas, The Board of Aldermen failed to take action thereon before the expiration of the term of office of the old Board of Aldermen; and

"'Whereas, The Commissioner of the Department of Street Cleaning, in a communication to the Board of Estimate and Apportionment, dated February 16, 1904, has made requisition for the issue of bonds to the amount of three hundred and seventy thousand dollars ($370,000), to provide for the construction of a stable on the block bounded by Flushing avenue, Graham street, Kent avenue and Little Nassau street, Borough of Brooklyn, as provided by section 546 of the Greater New York Charter; therefore be it

"'Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to the amount of three hundred and seventy thousand dollars ($370,000), the proceeds whereof to be expended for the purposes aforesaid,'

"—be and the same is hereby amended to read as follows:

"Whereas, The Board of Estimate and Apportionment, on June 5, 1903, adopted a resolution, subject to the concurrence of the Board of Aldermen, authorizing the issue of corporate stock to an amount not exceeding three hundred and sixty-four thousand three hundred and thirty-eight dollars ($364,338), to provide means for the construction of a stable on the block bounded by Flushing avenue, Graham street, Kent avenue and Little Nassau street, Borough of Brooklyn;

"Whereas, The Board of Aldermen failed to take action thereon before the expiration of the term of office of the old Board of Aldermen; and

"Whereas, the Commissioner of the Department of Street Cleaning, in a communication to the Board of Estimate and Apportionment, dated February 16, 1904, has made requisition for the issue of bonds to the amount of three hundred and sixty-four thousand three hundred and thirty-eight dollars ($364,338), to provide for the construction of a stable on the block bounded by Flushing avenue, Graham street, Kent avenue and Little Nassau street, Borough of Brooklyn, as provided by section 546 of the Greater New York Charter; therefore be it

"Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to the amount of three hundred and sixty-four thousand three hundred and thirty-eight dollars ($364,338), the proceeds whereof to be expended for the purposes aforesaid."

—be further amended to make amount read "three hundred and fifty-eight thousand dollars ($358,000), for acquisition of site and construction of a stable, Borough of Brooklyn."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on July 1, 1910, and approved by the Board of Aldermen on July 19, 1910, which reads as follows:

"Resolved, That the Board of Aldermen hereby approves of and concurs in the following amended resolution adopted by the Board of Estimate and Apportionment July 1, 1910:

"'Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 25, 1909, which reads as follows:

"'Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 11, 1909, which reads as follows:

"'Whereas, The Commissioner of the Department of Street Cleaning in a communication dated May 14, 1909, has made requisition for an issue of bonds to the amount of thirty thousand dollars ($30,000), for new stock or plant for said Department, as provided by section 546 of the Greater New York Charter; therefore be it

"'Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the following purposes:

"'For the construction of a dumping board at the foot of 158th street, North River, Borough of Manhattan, $4,000.

"'For the construction of a dumping board at the foot of 134th street, North River, Borough of Manhattan, $4,000.

"'For the construction of a dumping board at the foot of 97th street, North River, Borough of Manhattan, $12,000.

"'—be and the same is hereby amended by including therein the item: For the construction of a dumping board at the foot of Clinton avenue, Borough of Brooklyn, $7,000, and by striking out the words and figures, wherever they appear, "twenty thousand dollars ($20,000)," and inserting in place thereof the words and figures "twenty-seven thousand dollars ($27,000),"'

"—be and the same is hereby amended by striking therefrom the words 'at foot of Clinton avenue,' and inserting in place thereof the words 'on Pier No. 1, Wallabout Basin,'"

—be amended to make the amounts read "fifteen thousand seven hundred and forty-nine dollars and fifty cents ($15,749.50)," for the construction of dumping boards at the following locations:

At the foot of 158th street and North River, Borough of Manhattan.

At the foot of 134th street and North River, Borough of Manhattan.

At the foot of 97th street and North River, Borough of Manhattan.

And four thousand and sixty-nine dollars and sixty-three cents ($4,069.63) for the construction of a dumping board on Pier No. 1, Wallabout Basin, Borough of Brooklyn.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence of the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and approved by the Board of Aldermen June 28, 1910, which reads as follows:

"Resolved, That, pursuant to the provisions of section 546 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five thousand dollars ($5,000), to provide means for installing an elevator in Stable 'A' of the Department of Street Cleaning, located at 17th street and Avenue C, Borough of Manhattan, under the jurisdiction of the Department of Street Cleaning, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New

York, in the manner provided by section 169 of the Greater New York Charter, the troller be and is hereby authorized to issue said corporate stock of The City of New proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid,"

—be amended to make the amount read "two thousand and eighty-six dollars ($2,086), for installing an elevator at Stable 'A,' Manhattan."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

COMMISSIONS AND COMMISSIONERS.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Commissions and Commissioners for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the three Schedules A, B and C included herein.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "C" includes our recommendations for all rescindments or partial rescindments of existing authorizations of corporate stock.

Schedule "A," New Authorizations of Corporate Stock.

Change of Grade Damage Commission, Twenty-third and Twenty-fourth Wards, for expenses year 1912, nine thousand three hundred dollars... $9,300 00

Schedule "B," Additions to Existing Authorizations of Corporate Stock.

C-CM-6. Change of Grade Damage Commission, Twenty-third and Twenty-fourth Wards for expert witness fees, ten thousand dollars.. $10,000 00

C-CM-9a. Amend resolution of the Board of Estimate and Apportionment and the Board of Aldermen, adopted respectively June 3 and June 21, 1910, to provide for the general improvement and development of Jamaica Bay, in the Boroughs of Brooklyn and Queens, and the general condition of the waterfront of the Boroughs of The Bronx, Brooklyn, Queens and Richmond, as follows: For hydrographic surveys, along and adjacent to the bulkhead line already tentatively adopted, nine thousand five hundred dollars ($9,500).

For topographical surveys to determine the amount of filling needed, four thousand dollars ($4,000).

For precisely establishing the bulkhead line and connecting it with the street system of the City, two thousand five hundred dollars ($2,500).

For the preparation of plans showing types of bulkheads, general treatment of the shore front, provision for railway connections and terminals, for office expenses, and for past and subsequent compensation and disbursements of the Commission, twenty-eight thousand one hundred dollars ($28,100).

—to read

For hydrographic surveys along and adjacent to the bulkhead line already tentatively adopted, eleven thousand dollars ($11,000).

For topographical surveys to determine the amount of filling needed, four thousand dollars ($4,000).

For precisely establishing the bulkhead line and connecting it with the street system of the City, two thousand five hundred dollars ($2,500).

For the preparation of plans showing types of bulkhead, general treatment of the shore front, provision for railway connections and terminals, for office expenses, and for past and subsequent compensation and disbursements of the Commission, thirty-four thousand six hundred dollars ($34,600).

—thereby increasing the amount eight thousand dollars.............. $8,000 00

$18,000 00

Schedule "C," Rescindments or Partial Rescindments of Existing Corporate Stock Authorizations.

C-CM-5a. Amend resolution of the Board of Estimate and Apportionment adopted November 19, 1909, to provide for the payment of the expenses of the Change of Grade Damage Commission for the year 1910, to read eighteeen thousand three hundred and fifty ($18,350) dollars instead of eighteen thousand eight hundred and fifty ($18,850) dollars, thereby rescinding an amount of five hundred dollars.........	$500 00

We recommend the adoption of the attached resolutions.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 537, Laws of 1893, as amended by chapter 567, Laws of 1894; chapter 205, Laws of 1898; chapters 707, 708 and 709, Laws of 1899; chapter 729, Laws of 1900; chapter 747, Laws of 1905, and pursuant to section 170 of the Greater New York Charter, the Board of Estimate and Apportionment, hereby authorizes the Comptroller to issue corporate stock of The City of New York, from time to time, as may be required, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding nine thousand three hundred dollars ($9,300), the proceeds whereof to be applied for the purpose of defraying the cost of the expenses of the Change of Grade Damage Commission, Twenty-third and Twenty-fourth Wards, for the year 1912.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 567 of the Laws of 1894, and chapter 747 of the Laws of 1905, and the provisions of sections 169 and 170 of the Greater New York Charter, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to the amount of ten thousand dollars ($10,000), to provide for the payment of the fees of expert witnesses employed by the Corporation Counsel to testify in the proceedings before the Change of Grade Damage Commission authorized by said acts.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment, at a meeting held June 3, 1910, and adopted by the Board of Aldermen June 21, 1910, which reads as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of the City of New York to an amount not exceeding seventy-five thousand dollars ($75,000), to provide means for the necessary expenses of the Commission appointed by the Mayor, pursuant to a resolution of the Board of Estimate and Apportionment adopted June 7, 1907, in connection with the general improvement and development of Jamaica Bay, in the Boroughs of Brooklyn and Queens, and the general condition of the water-front of the Boroughs of The Bronx, Brooklyn, Queens and Richmond, to be expended as follows:

For hydrographic surveys along and adjacent to the bulkhead line already tentatively adopted	$30,000 00
For topographical surveys to determine the amount of filling needed......	5,000 00
For precisely establishing the bulkhead line and connecting it with the street system of the City..	2,500 00

For the preparation of plans showing types of bulkhead, general treatment of the shore front, provision for railway connections and terminals, for office expenses, and for past and subsequent compensation and disbursements of the Commission	37,500 00
	$75,000 00

—and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding seventy-five thousand dollars ($75,000), the proceeds whereof to be applied to the purposes aforesaid.

—be amended to read as follows:

Resolved, That, pursuant to the provision of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty-four thousand one hundred dollars ($44,100), to provide means for the necessary expenses of the Commission appointed by the Mayor, pursuant to a resolution of the Board of Estimate and Apportionment adopted June 7, 1907, in connection with the general improvement and development of Jamaica Bay, in the Boroughs of Brooklyn and Queens, and the general condition of the waterfront of the Boroughs of The Bronx, Brooklyn, Queens and Richmond, to be expended as follows:

For hydrographic surveys along and adjacent to the bulkhead line already tentatively adopted	$9,500 00
For topographical surveys to determine the amount of filling needed	4,000 00
For precisely establishing the bulkhead line and connecting it with the street system of the City	2,500 00
For the preparation of plans showing types of bulkhead, general treatment of the shore front, provision for railway connections and terminals, for office expenses and the past and subsequent compensation and disbursements of the Commission	28,100 00
	$44,100 00

and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding forty-four thousand one hundred dollars ($44,100), the proceeds whereof to be applied to the purposes aforesaid.

—be further amended to make the amounts read as follows:

For hydrographic surveys along and adjacent to the bulkhead line already tentatively adopted, eleven thousand dollars	11,000 00
For topographical surveys to determine the amount of filling needed, four thousand dollars	4,000 00
For precisely establishing the bulkhead line and connecting it with the street system of the City, twenty-five hundred dollars	2,500 00
For the preparation of plans showing types of bulkhead, general treatment of the shore front, provision for railway connections and terminals, for office expenses and the past and subsequent compensation and disbursements of the Commission, thirty-four thousand six hundred dollars	$34,600 00
	$52,100 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, the resolution adopted by the Board of Estimate and Apportionment, at a meeting held November 19, 1909, which reads as follows:

"Resolved, That, pursuant to the provisions of chapter 837 of the Laws of 1893, as amended, by chapter 567 of the Laws of 1894; chapter 747, Laws of 1908, and sections 169 and 170 of the Greater New York Charter, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York from time to time, as may be required, in the manner provided by section 169 of the Greater New York Charter, to the amount of eighteen thousand eight hundred and fifty dollars

($18,850), to provide for the payment of the expenses of the Change of Grade Damage Commission for the year 1910 authorized by said act."
—be amended to make the amount read eighteen thousand three hundred and fifty dollars ($18,350).

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

METROPOLITAN SEWERAGE COMMISSION.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Metropolitan Sewerage Commission for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolution, which is drawn in accordance with the following schedule, which includes our recommendation for all new authorizations of corporate stock other than additions to existing authorizations.

Metropolitan Sewerage Commission, salaries and other expenses........	$34,000 00

We recommend the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President of the Board of Aldermen; GEORGE McANENY, President of the Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 639 of the Laws of 1906, as amended by chapter 422 of the Laws of 1908 and chapter 200 of the Laws of 1910, the Board of Estimate and Apportionment hereby appropriates the sum of thirty-four thousand dollars ($34,000), to pay salaries and other expenses of the Commission known as the Metropolitan Sewerage Commission of New York, appointed to investigate and consider means for protecting the waters of New York Bay and vicinity against pollution, and that for the purpose of providing means therefor the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

COMMISSIONER OF RECORDS, NEW YORK COUNTY.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit our report on the request of the Commissioner of Records, New York County, for corporate stock to be issued in 1911.

Our recommendations are embraced in the attached resolution in accordance with schedule.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "A"—New Authorizations.

Purchase of steel filing cases and furnishings for the office of the County Clerk, New York County, under the jurisdiction of the Commissioner of Records, New York County..	$25,000 00

We recommend the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 291, Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the purchase of steel filing cases and furnishings for the office of the County Clerk, New York County, under the jurisdiction of the Commissioner of Records, New York County, and the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

SURROGATE AND COUNTY CLERK, QUEENS COUNTY.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the request made by the Surrogate and County Clerk, of Queens County, for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolution in accordance with schedule.

Schedule "A" includes our recommendations for all new authorizations of corporate stock other than additions to existing authorizations.

Schedule "A"—New Authorizations.

Construction of a fireproof building and purchase of steel filing cases for Queens County records for the use of the Surrogate and County Clerk of Queens County, under the jurisdiction of the President of the Borough of Queens	$100,000 00

We recommend the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Committee on Corporate Stock Budget.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the construction of a fireproof building and purchase of steel filing cases for Queens County records for the use of the Surrogate and County Clerk of Queens County, under the jurisdiction of the President of the Borough of Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

FINANCE AND MISCELLANEOUS.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Finance and Miscellaneous for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions, which are drawn in accordance with Schedule "B," included herein.

Schedule "B" includes our recommendations for all additions to existing authorizations of corporate stock.

Schedule "B"—Additions to Existing Authorizations of Corporate Stock.

C-BD-21. Bridge over Gowanus Canal at Hamilton avenue, Borough of Brooklyn—Damage from change of grade of streets and avenues, twelve thousand dollars	$12,000 00
C-FM-4. Corporate stock fund to provide for deficiencies in tax levies of 1904, and prior, demand uncollectible at January 1, 1905 (chapter 208, Laws of 1906), five million dollars	5,000,000 00
	$5,012,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 224 of the Laws of 1905, the Comptroller be and hereby is authorized to issue corporate stock of The City of York to an amount not exceeding one hundred thousand dollars ($100,000), to provide New York, in the manner provided by section 169 of the revised Greater New York Charter, to the amount of twelve thousand dollars ($12,000), for the purpose of providing means to pay awards made by the Board of Assessors for damages arising from the change of grade of streets or avenues because of the construction of a bridge over the Gowanus canal at Hamilton avenue, in the Borough of Brooklyn, City of New York.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the following authorization of corporate stock be released from the provisions of a resolution adopted by the Board of Estimate and Apportionment on January 14, 1910, which resolution directed the heads of the various City Departments to incur no further obligations against existing corporate stock authorizations (except for salaries, wages and supplies) without the express authorization of the Board of Estimate and Apportionment, the said release to be in sums not exceeding the amount set opposite the items herein scheduled and for the purposes herein specified:

C-FM-4. Corporate stock fund to provide for deficiencies in tax levies of 1904, and prior, deemed uncollectible at January 1, 1905, chapter 208, Laws of 1906, to provide for the amount of deficiencies in tax levies of 1904, and prior, not otherwise provided for, five million dollars.....$5,000,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—We transmit herewith our report upon the requests made by the Department of Water Supply, Gas and Electricity for corporate stock to be authorized in 1911.

Our recommendations are embraced in the attached resolutions which are drawn in accordance with the schedule included herein.

Since authorizations of corporate stock for improving the water supply systems in the several Boroughs do not affect the borrowing capacity of the City, as determined by the debt limit, only such authorizations as are required to provide for improvements to be contracted for during 1911, and for the estimated annual cost of salaries and wages of the engineering and labor construction force of the Department; for the contingent expenses of this force, and for the purchase of supplies and materials for construction work performed by departmental labor, are herein recommended.

For the reason that when the authorizations previously noted are available, no further expenditures for salaries and wages, or for contingent expenses, will be charged against present authorizations of corporate stock, it has been considered advisable to recommend new authorizations for the specific improvements required; and later, when the amounts of the present authorizations which can be rescinded are definitely determined, to recommend such rescindments. At that time such further authorizations as may be required for improvements to be contracted for prior to July 1, 1912, will be recommended.

New Authorizations of Corporate Stock.

For furnishing and laying additional small distribution mains, Boroughs of Manhattan and The Bronx	$180,000 00
For purchase of supplies and materials for use of the labor construction force, Boroughs of Manhattan and The Bronx	110,000 00
For construction of a chlorination plant at Dunwoodie, Westchester County, New York State	15,000 00
For construction of four small chlorination plants on streams in the Croton watershed	20,000 00
For payment of salaries and wages of the labor construction force, Boroughs of Manhattan and The Bronx	76,500 00
For furnishing and laying additional small distribution mains, Borough of Brooklyn	70,000 00
For cross-connecting old distribution mains, Borough of Brooklyn	25,000 00
For furnishing and laying 20-inch distribution main in Broadway, from Jamaica avenue to Rockaway avenue, Borough of Brooklyn	40,000 00
For furnishing and laying 16-inch distribution main in Hopkinson avenue from Broadway to Fulton street, Borough of Brooklyn	20,000 00
For furnishing and laying 16-inch distribution main in Howard avenue, from Broadway to Fulton street, Borough of Brooklyn	35,000 00
For furnishing and laying 16-inch distribution main in Fulton street from Howard avenue to Classon avenue, Borough of Brooklyn	65,000 00
For furnishing and laying 20-inch distribution main in Nostrand avenue, from Woodruff avenue to Flatbush avenue, Borough of Brooklyn	35,000 00
For the purchase of supplies and materials for use of the labor construction force, Borough of Brooklyn	38,000 00
For furnishing and setting 500 additional hydrants for fire protection purposes, Borough of Brooklyn	45,000 00
For construction of two buildings at the North Portland avenue repair yard, Borough of Brooklyn	45,000 00
For construction of two buildings at the Gowanus pipe yard, Borough of Brooklyn	35,000 00
For construction of a building at the East New York repair yard	25,000 00
For permanent betterments and additions to building at New Utrecht pumping station, to permit of use of premises as a repair and storage yard, Borough of Brooklyn	10,000 00
For fencing and improving grounds at Ridgewood pumping station, Borough of Brooklyn	10,000 00
For permanent betterments and additions to pumping station buildings on the Brooklyn watershed	45,000 00
For furnishing and installing additional equipment at pumping stations on the Brooklyn watershed	30,000 00
For payment of salaries and wages of the labor construction force, Borough of Brooklyn	61,000 00
For furnishing and laying 30-inch distribution main to connect distribution systems of First and Third Wards, Borough of Queens	180,000 00
For furnishing and laying 24-inch distribution main from Bayside pumping station to Flushing standpipe, Borough of Queens	115,000 00
For furnishing and laying additional small distribution mains, Borough of Queens	105,000 00
For purchase of supplies and materials for use of the labor construction force, Borough of Queens	28,000 00
For payment of salaries and wages of labor construction force, Borough of Queens	10,000 00
For furnishing and laying additional small distribution mains, Borough of Richmond	130,000 00

For purchase of supplies and materials for use of the labor construction force, Borough of Richmond	28,000 00
For construction of a building at West New Brighton pumping station, for headquarters, etc., Borough of Richmond	25,000 00
For extending present building, erecting additional pump, and furnishing and installing new boilers, at West New Brighton pumping station, Borough of Richmond	14,500 00
For furnishing and installing engines, boilers and electrical equipment at new Grant city pumping station, Borough of Richmond	100,000 00
For payment of salaries and wages of the labor construction force, Borough of Richmond	48,000 00
For payment of salaries and wages of the engineering construction force, all Boroughs	500,000 00
For contingent expenses of the construction force, all Boroughs	40,000 00
	$2,359,000 00

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and eighty thousand dollars ($180,000), to provide means for furnishing and laying additional small distribution mains and appurtenances in the Boroughs of Manhattan and The Bronx, in connection with improving the water supply systems of said Boroughs, and that, when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and ten thousand dollars ($110,000), to provide means for the purchase of supplies and materials for use of the labor construction force of the Department of Water Supply, Gas and Electricity, in the Boroughs of Manhattan and The Bronx, in connection with improving the water supply system of said Boroughs, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding fifteen thousand dollars ($15,000), to provide means for the construction of a chlorination plant, at Dunwoodie, Westchester County, State of New York, for water purification purposes, in connection with improving the water supply system of the Boroughs of Manhattan and The Bronx, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty thousand dollars ($20,000), to provide means for the construction of four chlorination plants, for water purification purposes, on streams in the Croton watershed, in connection with improving the water supply system of the Boroughs of Manhattan and The Bronx, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding seventy-six thousand five hundred dollars ($76,500), to provide means for the payment of salaries and wages of the labor construction force of the Department of Water Supply, Gas and Electricity, employed in connection with improving the water supply systems of the Boroughs of Manhattan and The Bronx, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding seventy thousand dollars ($70,000), to provide means for furnishing and laying additional small distribution mains and appurtenances in the Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for cross-connecting old distribution mains, in the district bounded by the City Line, Flushing avenue, Sumner avenue, Atlantic avenue, Broadway and Granite street, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The

City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section' 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding forty thousand dollars ($40,000), to provide means for furnishing and laying a 20-inch distribution main and appurtenances in and along Broadway, from Jamaica avenue to Rockaway avenue, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty thousand dollars ($20,000), to provide means for furnishing and laying a 16-inch distribution main and appurtenances in and along Hopkinson avenue, from Broadway to Fulton street, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for furnishing and laying a 16-inch distribution main and appurtenances in and along Howard avenue, from Broadway to Fulton street, Borough of Brooklyn, in connection with improving the water supply of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding sixty-five thousand dollars ($65,000), to provide means for furnishing and laying a 16-inch distribution main and appurtenances in and along Fulton street, from

Howard avenue to Classon avenue, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for furnishing and laying a 20-inch distribution main and appurtenances in and along Nostrand avenue, from Woodruff avenue to Flatbush avenue, Borough of Brooklyn, in connection with improving the water supply of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirty-eight thousand dollars ($38,000), to provide means for the purchase of supplies and materials for use of the labor construction force of the Department of Water Supply, Gas and Electricity, in the Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding forty-five thousand dollars ($45,000), to provide means for furnishing and setting five hundred additional double-nozzle hydrants and appurtenances for fire protection purposes, in the Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding forty-five thousand dollars ($45,000), to provide means for the construction of a building, to be used as a stable and garage, and a building for headquarters, for repair shops and for storage purposes, at the North Portland Avenue Repair Yard, of the Department of Water Supply, Gas and Electricity, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds therof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirty-five thousand dollars ($35,000), to provide means for the construction of a building, to be used as a stable, and a building for headquarters and for storage purposes, at the Gowanus Pipe Yard, of the Department of Water Supply, Gas and Electricity, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the construction of a building to be used as a stable, for headquarters, for machine shops, and for storage purposes, at the East New York Repair Yard of the Department of Water Supply, Gas and Electricity, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding ten thousand dollars ($10,000), to provide means for permanent betterments and additions to the abandoned New Utrecht Pumping Station building, Borough of Brooklyn, to permit of the use of said premises for a Repair and Storage Yard by the Department of Water Supply, Gas and Electricity, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding ten thousand dollars ($10,000), to provide means for fencing and improving the grounds at the Ridgewood Pumping Station, Borough of Brooklyn, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding forty-five thousand dollars ($45,000), to provide means for the permanent betterments and additions to pumping station buildings on the Brooklyn Watershed, in connection with improving the water supply system of the Borough of Brooklyn, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding thirty thousand dollars ($30,000), to provide means for furnishing and installing necessary additional equipment at pumping stations on the Brooklyn Watershed, in connection with improving the water supply system of the Borough of Brooklyn, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding sixty-one thousand dollars ($61,000), to provide means for the payment of salaries and wages of the Labor Construction Force of the Department of Water Supply, Gas and Electricity employed in connection with improving the water supply system of the Borough of Brooklyn, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and eighty thousand dollars ($180,000), to provide means for furnishing and laying a 30-inch distribution main and appurtenances in and along Fresh Meadow road, North Hempstead turnpike, Jamaica avenue and Union avenue, to connect the distribution systems of the First Ward and the Third Ward, Borough of Queens, in connection with improving the water supply system of said Borough, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and fifteen thousand dollars ($115,000), to provide means for furnishing and laying a 24-inch distribution main and appurtenances from the Bayside Pumping Station to the Flushing Standpipe, in and along Broadway, 10th street, Bayside boulevard, Ashburton avenue, Chambers street, Crocheron avenue, Whitestone road and Mitchell avenue, Borough of Queens, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and five thousand dollars ($105,000), to provide means for furnishing and laying additional small distribution mains and appurtenances in the Borough of Queens, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-eight thousand dollars ($28,000), to provide means for the purchase of supplies and materials for use of the Labor Construction Force of the Department of Water Supply, Gas and Electricity, in the Borough of Queens, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding ten thousand dollars ($10,000), to provide means for the compensation of the Labor Construction Force of the Department of Water Supply, Gas and Electricity, employed in connection with improving the water supply system of the Borough of Queens, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred and thirty thousand dollars ($130,000), to provide means for furnishing and laying additional small distribution mains and appurtenances in the Borough of Richmond, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-eight thousand dollars ($28,000), to provide means for the purchase of supplies and materials for use of the Labor Construction Force of the Department of Water Supply, Gas and Electricity, in the Borough of Richmond, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the construction of a building, to be used for headquarters, for repair shops and for storage purposes, at the West New Brighton Pumping Station, Borough of Richmond, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding fourteen thousand five hundred dollars ($14,500), to provide means for extending the present building at the West New Brighton Pumping Station, erecting an additional pump thereat, including transportation of said pump, and for furnishing and installing additional boilers at the Clove Pumping Station, Borough of Richmond, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for furnishing and installing necessary engines, boilers and appurtenances and electrical equipment at the new Grant City Pumping Station, Borough of Richmond, in connection with improving the water supply system of said Borough, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exexceeding forty-eight thousand dollars ($48,000), to provide means for the payment of salaries and wages of the Labor Construction Force of the Department of Water Supply, Gas and Electricity employed in connection with improving the water supply system of the Borough of Richmond, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding five hundred thousand dollars ($500,000), to provide means for the payment of salaries and wages of the Engineering Construction Force of the Department of Water Supply, Gas and Electricity employed in connection with improving the water supply systems of the Boroughs of Manhattan, The Bronx, Brooklyn, Queens and Richmond, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 178 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding forty thousand dollars ($40,000), to provide means for the contingent expenses of the Engineering and Labor Construction Force of the Department of Water Supply, Gas and Electricity, in connection with improving the water supply systems of the Boroughs of Manhattan, The Bronx, Brooklyn, Queens and Richmond, and that the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The President of the Board of Aldermen moved that when the Board adjourns, it adjourn to meet Tuesday, July 18, 1911, at 10.30 o'clock a. m., which motion was adopted.

On motion of the Comptroller, the Board adjourned to meet Tuesday, July 18, 1911, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Tuesday, July 18, 1911, at 10.30 a. m.

FRANCHISE MATTERS.

The Board met in pursuance of an adjournment.

Present—John Purroy Mitchel, President, Board of Aldermen; William A. Prendergast, Comptroller; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Cyrus C. Miller, President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The President of the Board of Aldermen, Hon. John Purroy Mitchel, presided.

Rapid Transit Railway—Battery-East River-Atlantic Avenue Route.

In the matter of the communication dated June 30, 1911, from the Public Service Commission for the First District, transmitting resolutions adopted by said Commission as to route and general plan of construction for a proposed rapid transit railway beginning at a point under Battery Park, Borough of Manhattan, and extending under the park and ferry or waterfront property to the East River; thence under the East River to a point at or near Atlantic avenue, Borough of Brooklyn, extended with the pierhead line; thence under and along Atlantic avenue to a point in said avenue about 150 feet east of the easterly line of Court street, Borough of Brooklyn, where a connection can be made with Section 11-D of the Fourth avenue subway, and requesting the approval and consent of this Board thereto.

This communication was presented to the Board at the meeting of July 6, 1911, when, by resolution duly adopted, July 13, 1911, was fixed as the date for consideration and the communication was referred to the Franchise Committee.

At the meeting of July 13, 1911, the consideration was concluded and the matter was laid over until July 17, 1911, when it was laid over until this day.

The matter was laid over until July 20, 1911.

Rapid Transit Railways—Extensions to the Existing System; also Third Tracking and Constructing Additions to the Second, Third and Ninth Avenue Elevated Railroads; and the Completion and Putting in Operation of the Steinway Tunnel.

In the matter of the communication from the Public Service Commission for the First District, relative to the construction, maintenance and operation of additional rapid transit railways; and requesting a statement of the position of this Board on the subject.

At the meeting of July 17, 1911, the President of the Board of Aldermen served notice on the Board that unless a decision was reached in this matter on or before the next meeting of the Board, he would, at that time, offer for adoption a resolution providing for the award of the extended rapid transit system pursuant to the recommendations of the Conference Committee.

The President of the Board of Aldermen stated he was prepared to offer a resolution awarding the extended rapid transit system pursuant to recommendations of the Conference Committee, unless the Committee had a report prepared.

The President of the Borough of Manhattan, Chairman of the Committee, stated the Committee was formulating a report and would be prepared to submit its recommendations to the Board at three o'clock p. m. this day.

On motion of the Comptroller, the Board adjourned to meet at three o'clock p. m. this day.

JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment Called for Tuesday, July 18, 1911, at Room 16, City Hall, at 3 o'clock p. m.

FINANCIAL AND FRANCHISE MATTERS.

At the meeting of the Board held this day at 10.30 o'clock a. m. an adjournment was taken until 3 o'clock p. m.

Owing to the absence of a quorum no meeting was held.

JOSEPH HAAG, Secretary.

1501 G-300-11-(L)

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment Held in Room 16, City Hall, Thursday, July 20, 1911, at 10.30 a. m.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of the following call:

City of New York, Office of the Mayor, July 19, 1911.

In pursuance of the provisions of section 226 of the Greater New York Charter, the Board of Estimate and Apportionment requests the Mayor to call a meeting of said Board on Tuesday, July 20, 1911, at 10.30 o'clock a. m.

W. J. GAYNOR, Mayor; WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; ALFRED E. STEERS, President, Borough of Brooklyn; CYRUS C. MILLER, President, Borough of The Bronx; LAWRENCE GRESSER, President, Borough of Queens; GEORGE CROMWELL, President, Borough of Richmond.

Present—William J. Gaynor, Mayor; William A. Prendergast, Comptroller; John Purroy Mitchel, President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Cyrus C. Miller, President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Mayor, Hon. William J. Gaynor, presided.

FRANCHISE MATTERS.

Rapid Transit Railway—Battery-East River-Atlantic Avenue Route.

In the matter of the communication from the Public Service Commission for the First District, transmitting resolutions adopted by said Commission as to route and general plan of construction for a proposed rapid transit railway beginning at a point under Battery Park, Borough of Manhattan, and extending under the park and ferry or waterfront property to the East River; thence under the East River to a point at or near Atlantic avenue, Borough of Brooklyn, extended with the pierhead line; thence under and along Atlantic avenue to a point in said avenue about 150 feet east of the easterly line of Court street, Borough of Brooklyn, where a connection can be made with Section 11-D of the Fourth Avenue Subway, and requesting the approval and consent of this Board thereto.

This communication was presented to the Board at the meeting of July 6, 1911, and by resolution duly adopted, July 13, 1911, was fixed as the date for consideration and the communication was referred to the Franchise Committee.

At the meeting of July 13, 1911, the consideration was concluded and the matter was laid over until July 17, 1911, when it was laid over until July 18, 1911, and was then laid over until this day.

The matter was laid over.

Rapid Transit Railways—Extensions to the Existing System; Also Third Tracking and Constructing Additions to the Second, Third and Ninth Avenue Elevated Railroads, and the Completion and Putting in Operation of the Steinway Tunnel.

In the matter of the communication from the Public Service Commission for the First District, relative to the construction, maintenance and operation of additional rapid transit railways, and requesting a statement of the position of this Board on the subject.

The President of the Borough of Manhattan, Chairman of the Conference Committee, presented the following:

July 20, 1911.

To the Honorable Board of Estimate and Apportionment:

Gentlemen—The Public Service Commission for the First District and your Special Committee upon pending proposals for the construction, equipment and operation of new rapid transit lines submitted to your honorable body under date of June 13, 1911, a joint report embodying recommendations with relation to the terms upon which, in the judgment of the transit conferees, contracts for such construction, equipment and operation might properly be made between the City and the Interborough Rapid Transit Company and the Brooklyn Rapid Transit Company respectively.

These recommendations, together with certain modifications thereof, were approved by your honorable Board under the resolution adopted under date of June 21, 1911 and June 29, 1911, and the respective operating companies were subsequently advised of the action so taken.

The general plan upon which the Public Service Commission and the Board of Estimate and Apportionment agreed contemplated:

1. The laying out of a transit system that would serve as a basis for a logical and well-ordered future City plan.
2. Provision, as rapidly as the means at the City's command permitted, not only for the relief of congested areas, but for the operation of lines through those sections that, though relatively undeveloped, offer promising opportunity for the better distribution of population.
3. Automatic provision for the inclusion in either operating system of such future extensions as the City may from time to time decide to build.
4. The utilization and extension, so far as possible, of the facilities offered by existing rapid transit lines already at the service of the City, rather than to reduce the uses of such lines through competition of a wasteful nature.
5. The separation of particular routes, or combinations of routes in such manner as to secure control on the part of the City of future transit development, and the right of the City to recapture a system of lines capable of independent operation, if it so elects, at any time after ten years.
6. The release of the moneys invested by the City in new transit lines at the earliest practicable time from the restrictions placed by the constitution upon municipal indebtedness; and
7. The subjection of the operating companies to strict public regulation as a condition precedent to the granting of the new franchises or other rights.

It is not necessary at this moment to rehearse in detail the terms of the Report of the Conferees, which have been carefully considered by your Board, and which have been the subject of much general discussion. The fact should be emphasized, however, that the primary purpose of the plan proposed by the Conferees was to secure the advantages of a transit system based upon the principles we have stated, and not to put the City in a position of sacrificing any part of its own logical development for the sake of securing the sort of returns that would accrue to a partner in a commercial railroading enterprise. The Interborough Company, which holds the City's subways under leases that secure it in possession for approximately seventy years, has informed the Conferees that it could not accept the terms proposed by the City for the operation of extensions of its system, for the reason that the private capital required to carry out its part of the plan could not be enlisted upon such terms. In order to examine the figures and data, and to hear the arguments upon which the Company's conclusion was based, the Conferees have held several further conferences with the representatives of the Company and with their bankers. As a result of these conferences the Company now submits a supplementary offer to operate all of the routes laid down in the Conferees' report, and to accept all the terms and conditions proposed by the report, with the exception of those establishing the basis of compensation to the Company. The recommendations of the Conferees under this head were:

1. That if a contract were made with the Interborough Company, the Company be permitted to retain all of the net earnings upon the lines it now operates, which for the year ending June 30, 1910, amounted to 17.3 per cent. upon its invested capital.
2. That the net profits of the new lines be estimated upon a separate accounting system based on a per passenger method of ascertaining the cost of operation.
3. That the receipts of the new lines above operation be proportioned as follows:

(a) The carrying charges upon the new capital invested by the Company and the City respectively;

(b) Each party be permitted therafter to retain three per cent. in excess of such carrying charges;

(c) All receipts in excess of such three per cent. to be applied toward the carrying of deficits, if any, upon the cost of operating extensions; and

(d) That all profits remaining after the operation of such extensions be divided evenly between the two parties.

The Company now proposes that the gross receipts of all the lines, both new and old, be pooled, and that after the payment of operating expenses they be distributed as follows:

(a) The interest and sinking fund charges upon the bonds of the City issued for the construction of rapid transit lines under the present rapid transit contracts.

(b) An amount to be retained by the Company during the entire period of the contract equivalent to five per cent. interest and one per cent. sinking fund charges upon the capital contributed by the Company for either construction or equipment of the proposed and existing subways, with three per cent. additional as compensation to the Company for the pooling of the receipts of the existing lines with those of the new lines, the levelling of the leases upon the old and new lines, the exchange of leases upon the east and west side lines in Manhattan, and for services in connection with the operation of the property, it being understood that the amount of capital contributed by the Company to the existing subway system for construction and equipment as of June 30, 1911, amounts to the sum of $48,029,688, the basis for the allowance in question to be, nevertheless, the exact sum expended upon construction and equipment. These allowances, which are not to exceed nine per cent. in all, to be upon all capital furnished by the Interborough Company during the period of the contract, and to be cumulative; the deficits, if any, to be adjusted on a yearly basis out of a fund to be provided therefor by the Company as part of its capital investment; the allowance made to the Company upon the bonds or notes issued for this purpose not to exceed interest charges thereon.

(c) A sum representing the interest and sinking fund charges upon the capital invested by the City in the said new lines; deficiencies in the amount required to meet such charges from the date of the operation of said new lines to be treated as cumulative and to be met from the receipts of the system before further distribution of profit proceeds.

(d) A sum representing the difference between the interest and sinking fund charges of the City upon its investment in the said new lines, up to and including an aggregate of nine per cent. upon the investment of the City in the new lines. before the further distribution of profit proceeds; and

(e) An even distribution between the City and the Company of all profit after the foregoing charges have been met; such division to proceed throughout the remainder of the term of the lease from the City to the Company.

The proposition of the Company, read in conjunction with the general terms of the report, which it has accepted, also covers the following points:

1. That, as set forth in the Report of the Conferees, dated June 5, 1911, the sinking fund set aside by the Company upon its investment in equipment shall meet and cover all charges for obsolescence incidental to the maintenance of such equipment.

2. That all future extensions agreed upon by the City and the Company shall be governed by and included in the general provisions herein set forth as to receipts and deductions therefrom, and that all extensions required by the City and not agreed to by the Company shall be equipped and operated as part of the entire plan upon the general lines set forth in the offers of the Interborough Company of December 5, 1910 and May 9, 1911; the operating expenses of such extensions, in that case, to be upon the cost-per-passenger basis, to be determined according to unit costs on the entire system.

3. That upon the completion of any substantial portion of the new lines the receipts of the existing subways shall be immediately pooled therewith, and such pooled receipts divided in the manner hereinbefore provided, in the proportion which such new lines bear to the whole system, as the same may be placed in operation from time to time.

4. That the Company will commence at once the construction of all of the lines embraced in this plan that are contiguous to any of its existing lines, either subway or elevated, and that it will press the work upon all other lines with the greatest possible dispatch.

5. That the Interborough Company and the Manhattan Elevated Company will construct and operate the third track lines and extensions to the existing subway system of the Manhattan Company upon the terms proposed in the resolutions of

, as modified on , with the exception that the City, in lieu of the proposed provision for examination of the lines to determine what deferred depreciation, if any, would be required to be met, will accept a clause prohibiting excessive renewal charges on the part of the Company during any one year following the new operation.

6. That the Company will accept in every other particular the terms and conditions for the construction, equipment and operation of the lines for which it has applied, or which have been assigned to it, as laid down in the resolutions of June 21, 1911, as amended on June 30, 1911.

The Conferees, having in view the pre-eminent desirability of extending under a logical plan the City lines now under lease to the Interborough Company as part of the more comprehensive system proposed in the report of June 13, 1911, and being convinced that the revised terms that they have negotiated with the Interborough Company offer the best practicable basis of settlement, do not hesitate to recommend that the substitute proposition as to financial basis be accepted.

The advantages to the City would be manifold. The Company, in return for the pooling of its revenues, for the virtual merging of the new and old leases for the reduced period of forty-nine years, the exchange of leases upon its east and west side lines, and for its services as operator of the compounded system, would receive three per cent. above the carrying charges upon its investment. It is estimated that by the first year of operation of the new lines the Company's total investment upon the old lines for construction and equipment will be $50,000,000, and that its contribution for construction and equipment of the new lines will be $75,000,000—a total of $125,000,000. The three per cent. allowed upon this sum would amount to $3,750,000 annually. This would be the maximum sum allowed throughout the entire operation of the lease until the City also receives nine per cent. upon its investment. The Company's net profit from the subways for the year ending June 30, 1910 was $4,650,000. For the year ending June 30, 1911, figures for which are not yet in hand, the amount will be somewhat less. During this year, however, expenditures for equipment replacements have been abnormal and the net figures of the year are not to be taken as typical. It is estimated that the increase of traffic between now and the year 1915, the last year preceding the operation of the new lines, will bring the profit for that year to approximately $7,000,000. The present proposition is, therefore, in a word, that the Company will operate an expanded system, doubling the mileage of its present lines, for a profit of $1,000,000 less than it is receiving today upon its smaller system, and more than $3,000,000 less than the profit it would receive in the last year of the present operation.

It may be said that when the settlement of terms upon this principle was first proposed the Company suggested that it be given a reservation of ten per cent. upon its investment, old and new; a figure that would have more nearly approximated its present receipts, and that, although provision for the City's carrying charges should come next in order, all profit earned over the City's carrying charges should be divided evenly. This proposition the Conferees declined to accept. It was then proposed that the basis be made nine per cent., the even division to proced immediately following the payment of the City's carrying charges. This, also, the Conferees declined to accept. As a counter proposition, they proposed that the City receive an amount above its carrying charges up to nine per cent., and upon this basis a final agreement was reached.

The Company figures, upon estimates that are considered by the Conferees to be very conservative, that any cumulative deficits in its preferred allowance would be discharged within eight years from the beginning of operation, and that the cumulative deficiencies in the City's carrying account would be discharged in five years more, thus bringing the City within thirteen years to the point at which it would derive an annual profit.

It would be difficult to indicate accurately the exact year at which this point would be reached; but it could hardly be more than one or two years beyond the date the company anticipates. If it is assumed that the new and old lines, at such a date, would have reached the maximum of their carrying capacity—estimated at 800,000,000 passengers per year—the following operating results would have been secured:

Gross operating revenue (on the basis of 800,000,000 passengers per year)	$40,000,000
Less 45 per cent. allowance for operating expenses	18,000,000
	$22,000,000
Less carrying charges upon the City's present bonds	2,700,000
	19,300,000
Less taxes (city, state and federal)	600,000
	18,700,000
Add non-operating revenues	300,000
Gross income	$19,000,000

If there be deducted from this sum the proposed preferred allowance of $11,250,000 on the old and new investment of the company, plus an additional allowance of $1,000,000 on new equipment the company will be obliged to purchase in order to meet the expected growth of travel, and plus $4,950,000 representing nine per cent. to go to the City upon its new investment of $55,000,000, there would stilll remain a balance of $1,800,000 available for equal division between the parties within fifteen or sixteen years from the beginning of operation.

The release of the City's investment from the restrictions of the debt limit would occur as soon as its carrying charges have been met. It is to be considered, further, that the allowance to the Company of $3,750,000 annually as a preferred profit, is to be treated as preferential only during the thirteen or fourteen years prior to the payment of the City's full nine per cent. The City can borrow money more cheaply than the Company. Its bonds are apt to be sold at a rate of 4¼. It would be entitled, therefore, to 3¾ per cent. upon its proposed investment of $55,000,000, which would amount to $2,100,000 annually. From the first year of the realization of this full sum, the preferred allowance to the Company would be reduced, therefore, to $1,650,000. Throughout the remaining years of the lease, this reduced amount would stand for all that the Company surrenders in the way of its present earnings and the readjustment of its existing leases.

At the end of the leases, it would, moreover, turn over to the City a property valued at $125,000,000 and would have paid to the City during the same period an increase in taxes aggregating $20,000,000.

The Conferees, in recommending that the proposed revised basis for settlement with the Interborough Company be accepted, have in mind also the fact that the indirect benefits to the City would be vastly in excess of the direct return from its share in the revenues of operation. The President of the Department of Taxes and Assessments informs the Committee that within five or ten years following the opening of the new transit lines to operation, taxable values will increase fully $500,000,000 beyond the estimates the department has previously furnished. At the rate of the present annual tax, this would net more than $8,000,000 annually in taxation. This consideration alone, in the judgment of the Conferees, justifies any risk that the City proposes to take in its part of the construction of any of the lines embraced in the comprehensive plan the Conferees' report proposed.

The Conferees recommend, also, that the franchises sought by the Interborough and Manhattan companies for the third tracking and extension of the Manhattan elevated lines be also granted upon the terms set forth in the report, as subsequently amended. Under this plan, the City will receive half of the increase in net operation of the elevated roads, above an average of the profits of the two years ending June 30, 1911, instead of two per cent. of the increase in the gross receipts at express stations, as the Company had first proposed. The City will also undertake to treat as cumulative any losses of income on the part of the Company below the average aforesaid, and to discharge this before the even division of profits proceeds. There can be no doubt, however, that any loss of income due to the opening of the new subways will be quickly overcome, and the advantages of an even division in all of the increase of the future, estimated roughly at forty per cent. of the present traffic, is manifest.

The resolutions herewith submitted by the Special Committee of the Board of Estimate, if adopted, will not only determine the disposition of the several routes to be embraced within the system to be operated by the Interborough Company; but will reaffirm the action previously taken by the Board with relation to the award to the Brooklyn Company of the routes assigned to it in the Conferees' report of June 5, 1911.

The Public Service Commission is already proceeding with the preparation of formal contracts upon which the operation of the new system of the Brooklyn Company will be based. The Commission is proceeding, also, with all steps necessary to the legalization of routes embraced in any part of the City's plan that have not yet been established. The Commission will proceed with actual construction of the lines embraced in the plan to be built wholly by the City, for which bids are in hand, and with the advertisement of bids for the construction of all other such lines that have been legalized, as soon as the final action of the Board of Estimate and Apportionment is taken.

All of which is respectfully submitted.

Special Committee of the Board of Estimate and Apportionment: GEORGE McANENY, President, Borough of Manhattan; CYRUS C. MILLER, President, Borough of The Bronx; GEORGE CROMWELL, President, Borough of Richmond.

For the Public Service Commission for the First District: W. R. WILLCOX, Chairman; WM. McCARROLL, J. E. EUSTIS.

The President of the Borough of Manhattan offered the following:

Whereas, The Special Committee of the Board of Estimate and Apportionment appointed to consider pending transit proposals, and the Public Service Commission for the First District, made a joint report to this Board bearing date of June 5, 1911, and transmitted under date of June 13, 1911, with relation to the construction, equipment and operation of additional lines of rapid transit railway within The City of New York; and

Whereas, This Board, at a meeting held on June 21, 1911, concurred unanimously in the findings and recommendations of said joint report, with certain modifications set forth in the resolutions adopted upon such date applying to the respective proposals of the Interborough Rapid Transit Company and the Brooklyn Rapid Transit Company; and

Whereas, The Interborough Company, through informal communication to the Board, has represented that it would be unable to secure the investment of private capital in the lines assigned to it upon the terms proposed by the Board and the Public Service Commission unlesss the said terms and conditions be modified; and

Whereas, As a result of further conferences between the representatives of the company and the Special Committee of the Board and the Public Service Commission, the Conferees have been informed by the company, in a letter dated July 19, 1911, that it will accept the part allotted to it by the Board subject to the terms and conditions contained in the report of the Conferees dated June 5, 1911, as amended June 21, 1911, if certain modifications with relation to the financial terms be made therein; and

Whereas, The Board is convinced, for the reasons submitted by the Conferees, that the said modifications may properly be accepted; therefore be it

Resolved, That the Board hereby approves the recommendations of its Special Committee and the Public Service Commission that the Commission prepare and submit to the Board contracts for the construction, equipment and operation of the lines assigned to the Interborough Company, as set forth in the Conferees' report dated June 5, 1911, as amended June 21, 1911, and upon the general and specific terms prescribed by said report, excepting in the following particulars:

I. That the Interborough Company, in consideration of the grant of the new franchises and operating rights for the new lines it seeks, and for the new lines assigned to it under the said report of June 5, 1911, be required to pool the gross receipts of all the said lines, old and new; and that its revenues from such gross receipts, after the payment of operating expenses upon the basis set forth in the said report of June 5, 1911, shall be apportioned in the following order:

(a) The interest and sinking fund charges upon the bonds of the City issued for the construction of rapid transit lines under the present rapid transit contracts;

(b) An amount to be retained by the company during the entire period of the contract equivalent to five per cent. interest and one per cent. sinking fund charges upon the capital contributed by the company for either construction or equipment of the proposed and existing subways, with three per cent. additional as compensation to the company for the pooling of the receipts of the existing lines with those of the new lines, the leveling of the leases upon the old and new lines, the exchange of leases upon the east and west side lines in Manhattan, and for services in connection with the operation of the property; it being understood that the amount of capital contributed by the company to the existing subway system for construction and equipment as of June 30, 1911, amounts to the sum of $48,029,668; the basis for the allowance in question to be, nevertheless, the exact sum expended upon construction and equipment. These allowances, which are not to exceed nine per cent. in all, to be upon all capital furnished by the Interborough Company during the period of the contract, and to be cumulative; the deficits, if any, to be adjusted on a yearly basis out of a fund to be provided therefor by the company as part of its capital investment; the allowance made to the company upon the bonds or notes issued for this purpose not to exceed interest charges thereon.

(c) A sum representing the interest and sinking fund charges upon the capital invested by the City in the said new lines; deficiences in the amount required to meet such charges from the date of the operation of said new lines to be treated as cumulative and to be met from the receipts of the system before further distribution of profit proceeds.

(d) A sum representing the difference between the interest and sinking fund charges of the City upon its investment in the said new lines, up to and including an aggregate of nine per cent. upon the investment of the City in the new lines, before the further distribution of profit proceeds; and

(c) An even distribution between the City and the company of all profit after the foregoing charges have been met; such division to proceed throughout the remainder of the term of the leases from the City to the company.

II. That, as set forth in the report of the Conferees dated June 5, 1911, the sinking fund set, aside by the company upon its investment in equipment shall meet and cover all charges for obsolescense incidental to the maintainance of such eqiupmenr.

III. That all future extensions agreed upon by the City and the company shall be governed by and included in the general provisions herein set forth as to receipts and deductions therefrom, and that all extensions required by the City and not agreeed to by the company shall be equipped and operated as part of the entire plan upon the general lines set forth in the offers of the Interborough Company of December 5, 1910 and May 9, 1911; the operating expenses of such extensions, in that case, to be upon the cost-per-passenger basis, to be determined according to unit costs on the entire system.

IV. That upon the completion of any substantial portion of the new lines, the receipts of the existing subway shall be immediately pooled therewith, and such pooled receipts divided in the manner hereinbefore provided, in the proportion which such new lines shall bear to the whole system as the same may be placed in operation from time to time.

V. That the company will commence at once the construction of all the lines embraced in this plan that are contiguous to any of its existing lines, either subway or elevated, and that it will press the work upon all other lines with the greatest possible despatch.

VI. That the Interborough Company and the Manhattan Elevated Company will construct and operate the third track lines and extensions to the existing system of the Manhattan Company, upon the terms proposed in the resolutions of June 21, 1911 as modified on June 30, 1911 with the exception that the City, in lieu of the proposed provision for examination of the lines to determine what deferred depreciation, if any, would be required to be met, will accept a clause prohibiting excessive renewal charges on the part of the company during any one year following the new operation.

VII. That the company will accept in every other particular the terms and conditions for the construction, equipment and operation of the lines for which it has applied, or which have been assigned to it, as laid down in the resolutions of June 21, 1911, as amended on June 30, 1911; and be it further

Resolved, That, in pursuance of the joint recommendations of the Special Committee of the Board and the Public Service Commission, as heretofore ratified and confirmed, the Board approves the proposed immediate preparation of contracts, under the general provisions of the Rapid Transit Act, for the construction, equipment and operation of the lines assigned to the Brooklyn Rapid Transit Company—through the instrumentality of such new railroad company as may be organized for the purpose, or through the Brooklyn Union Elevated Railroad Company, or through both such companies, as may be deemed advisable—along the lines proposed to the Brooklyn Company in the resolutions of June 21, 1911, with the modifications and exceptions further provided in the resolutions adopted on June 30, 1911; and be it further

Resolved, That the Public Service Commission be respectfully requested to submit to this Board at the earliest date practicable the forms of the contracts to be entered into for the equipment, operation and maintenance of the lines of rapid transit railway proposed for operation aforesaid, either by the Interborough Company or by the Brooklyn Company, in order that all of the rapid transit lines proposed for construction, either by the City or by the respective companies, or now under construction by the City, may be promptly utilized; and be it further

Resolved, That the Public Service Commission be and it is hereby respectfully requested, at the earliest date or dates practicable, to submit from time to time for the further approval of this Board the contract or contracts to be entered into for the construction, at the expense of the City, of such portions of the said lines as are intended for operation by either of the contracting companies, or by any company, and to acquaint the Board, so far as practicable, in anticipation of such submission with the necessary plans, specifications and estimates for such construction, in order that the Board may proceed to appropriate the City funds to be expended in accordance therewith; and be it further

Resolved, That the Special Committee of this Board, consisting of the President of the Borough of Manhattan, the President of the Borough of The Bronx and the President of the Borough of Richmond, be hereby continued for the purpose of conferring and co-operating with the Public Service Commission in the carrying out of these recommendations and in the determination of such questions of detail with relation to contracts to be entered into with either company as were left undetermined in the joint report of the conferees, as modified by the resolutions subsequently adopted, including the resolutions of this date.

The following discussion ensued:

PRESIDENT MITCHEL: Mr. Mayor, this matter is now officially before the Board for action. I have waited during the past four days—that is, since the matter was first outlined, to express my full views concerning it and now, in expressing those views and stating the reasons why I vote as I shall upon this proposition, I ask that what I say be made a part of the record of the Board.

While I am keenly alive to the advantages of the Interborough operation of the lines alloted to that Company in the report of the conferees, and would be glad to vote for a contract of operation by that Company on any terms equitable to the City, I regret to find myself in a position where I must vote against the proposition which is now put forth.

I do so only because I believe it would work most disadvantageously to the City and would be almost as unfavorable in its operation as are the terms of the present contract No. 1, under which the Interborough now operates the present subway. My reasons for objecting to the present proposal are as follows:

(1) The preferential payment to the Company of 9 per cent. on old and 9 per cent. on new capital is tantamount to insuring the Company throughout the life of the proposed contract, the full amount of the net profits which the Company is now receiving from the present subway.

The Company claims an investment of $48,029,668; 9 per cent. on $48,029,668 equals $4,322,670. The Company proposes to invest $76,970,332 of new capital on which the carrying charges will be 6 per cent. The difference between the carrying charges 6 per cent. and 9 per cent. is 3 per cent. This 3 per cent. represents net profits. Three per cent. on $76,970,332 equals $2,309,110. The $4,322,670 being the 9 per cent. on old capital, and the $2,309,110 being the 3 per cent. net profit on new capital, together amount to $6,631,780. This sum equals 13.81 per cent. on $48,029,668

Last year the Company's net profit from the subway was $6,769,572. This equals 14.09 per cent. on the Company's alleged investment of $48,029,668. Therefore, the proposed plan of making a preferential payment to the Company of 9 per cent. on old and 9 per cent. on new capital is tantamount to paying to the Company all of its present net profits, and assuring to it carrying charges and sinking fund on the new capital invested, and this before the City gets one cent either in the way of carrying charges or profits upon the capital which it invests in the enterprise.

It is stated that the Company is constrained to make this demand for a preferential payment of $11,250,000, namely, 9 per cent. on old and 9 per cent. on new capital, because of its obligations, and I believe this to be, in a sense, quite true. In fact, in discussing this matter with the representative of the Company, I have been informed that the Company is not in a position to discuss with the City the equitable or inequitable character of the demand, or the adequacy of the compensation proposed for the Company, but must ask this whole amount because of the obligations which it is compelled to carry. These obligations are represented by the 9 per cent. dividend which the Company is now paying on its stock.

As we all know, that stock is owned by the Interborough-Metropolitan Company, and the proceeds of this dividend, when put into the treasury of the Interborough-Metropolitan Company, are immediately paid out again by that Company as a 4½ per cent. interest payment on the $70,000,000 of collateral trust bonds which the Interborough-Metropolitan Company has issued and outstanding.

The plea of the Interborough is that unless it continues to pay the 9 per cent. on its capital stock, and thus enable the Interborough-Metropolitan Company to continue to pay the interest on its bonds, the latter Company will go into bankruptcy. Perhaps this is true, but it offers no good reason to my mind why the City should be asked to finance, for the period of the next forty-nine years, the Interborough-Metropolitan bond and stock operations.

I am fully in accord with Mr. McAneny when he says that it makes no difference to him what the Company does with the money once the City has paid it over, and that he is concerned only with the adequacy of the amount paid by the City. I am not in accord as to the fairness to the City of the price proposed. Nor do I believe that adequate relief can be had only from the Interborough Company.

(2) The Company's offer in Subdivision A, last sentence, reads:

"This return not exceeding 9 per cent. is to be upon all capital furnished by the Interborough during the entire period of the contract and is to be cumulative and the deficits, if any, shall be adjusted on a yearly basis out of a fund to be provided therefor by the Company as a part of its capital investment."

This can mean only one thing, that the Company is to provide a fund through the issue of its bonds out of which it will meet the cumulative deficit occasioned by this preferential payment of $11,250,000 annually, as such deficit may occur. The City will then pay 9 per cent. for interest and sinking fund, plus 3 per cent. profits upon a fund which is created and used for the purpose of making good to the Company—that same interest, sinking fund and 3 per cent. profit upon the bonds issued in part to create this very fund. In other words, the City will be paying interest and profit upon interest and profit to the Interborough Company. This, it seems to me, is an unconscionable compounding of profit on profit.

I understand from the report read that it is proposed by the Committee that the offer of the Interborough Company will be modified so that only interest will be paid and not interest and profit upon the bonds issued to create this fund. That will change the situation only to this extent, that the City would then be paying compound interest on interest and profit.

PRESIDENT McANENY: That is to be accomplished through modication. It is already in the proposition, and is covered in the resolutions submitted to the Board. That is for short term notes and bonds, to cover these contingencies if they occur, the interest only on such notes shall be paid.

PRESIDENT MITCHEL: The offer as now offered by the Committee contemplates only compound interest.

PRESIDENT McANENY: Not the proposition of the Committee.

PRESIDENT MITCHEL: But it does not read so in the offer.

PRESIDENT McANENY: I have explained that; it does in the resolutions.

PRESIDENT MITCHEL: (3) The Company's alleged investment of $48,029,668 includes $11,000,000 for the construction cost of the present Brooklyn division south of City Hall. As everybody recollects, the Company was merely a constructing contractor in building that section, and bid $3,000,000 as the price of construction. The fact that it spent $11,000,000 in building the tunnel is no justification for a demand that the City now carry that investment for it. This arrangement will be tantamount to making the Brooklyn section cost the City $14,000,000 in place of $3,000,000, the price that it was supposed to cost. The Company is now asking the City to give up the advantages of that contract.

(4) On the Company's statement of its expectations of traffic, the cumulative deficit of the Company which must be discharged before the City gets a cent in the way of carrying charges and interest, will not be wiped out until the year 1924. The City's cumulative deficit for interest and carrying charges on its bonds will not be wiped out until the year 1929. It would not be until that year that the City would begin to get the 3¾ per cent. net profit, and it would not be until the year 1930 that the City and the Company would divide any surplus between them.

All of this is predicated upon the assumption that from 1924 on traffic will increase at the rate of 5½ per cent. a year, but, in point of fact, in the year 1924, in order to produce the gross income upon which these calculations have been based, the subway must be carrying 707,000,000, and in 1930 it would have to carry 974,600,000. The present subway, according to the figures of the Public Service Commission, is carrying 3,315,360 passengers per mile of single track per year. The present subway has 81 miles of single track. The proposed subway to be operated by the Interborough, old and new, would contain 212.8 miles of single track.

To produce the same congestion of traffic in the amalgamated subway which is now experienced in the present subway, it would have to carry only 705,508,608 passengers. In other words, in the year 1924, long before the City's cumulative deficit had been wiped out, and, in fact, while it still remained at $20,015,000, the new amalgamated subway system would have reached a point of congestion greater than that experienced in the present subway. The Public Service Commission estimates that the present subway will have reached a point of complete saturation beyond which it cannot expand, when it is carrying 25 per cent. more passengers than it is carrying at the present time. Assuming that the new amalgamated system be expanded by the same 25 per cent., this point of saturation would be reached in carrying 881,885,760 passengers. That is to say, the point of saturation would be reached in the year 1928, or one year before the cumulative deficit of the City had been wiped out. In other words, the new subways will have reached a condition of congestion far worse than the present crowding in the present subway before the City gets a cent of profit on its investment.

The first thing we have to consider is whether we want our new subway to be as crowded as is the present subway. If that question be answered in the negative, then we would not wish the traffic of the new subway to increase in volume over the year 1924 before building new subways to relieve it. If that question be answered in the negative, we certainly reach the conclusion that we would not wish the traffic of the new subway to expand to the point of 881,000,000, the number necessary to carry the net return calculated for the year 1928. In other words, to produce the results on which these calculations have been based and under which the cumulative deficit of the City upon its $50,000,000 expended in construction would be wiped out in the year 1929, the new subways would have to carry more passengers than they will be physically capable of carrying, and certainly far more passengers than they could be expected decently to carry.

(5) The Company's offer at page 4, under the title of "Extensions," reads:

"Extensions required by the City and not agreed to by the Company are to be equipped and operated as part of the entire plan upon the general line set forth in the offer of the Interborough Company of December 5, 1910, and May 9, 1911."

So we are not to have a real pooling of the entire system after all! The City is required by this offer to consent to a separate accounting basis for such future extensions and a separate method of determining revenue and operating expenses and also to guarantee the Company against loss in the operation of those extensions. The guaranty is illegal. We have, first, a guaranty against loss in the operation of these extensions and then a preferential payment of $11,250,000 on the rest of the system. In short, a guaranty piled upon a preferential payment.

It is pertinent to point out that all the Company would have to do in order to bring an extension under these terms of its offer would be to refuse to operate that extension.

To sum up, I am opposed to the present offer:

Because it guarantees to the Company 100 per cent. of its present net earnings throughout the term of the contract, which is more than the Company's present lease is reasonably worth today, in view of the competition which the Company would have to face provided that it did not obtain a franchise for any of the new subways;

Because it guarantees to the Company a compound interest—that is to say, interest on a fund created to make good interest and profit under the plan for preferential payment;

Because even that excessive net profit of the Company, assured under this plan, will be reckoned upon an inflated statement of the Company's investment in construction, due to the inclusion of $11,000,000 for the Brooklyn extension and other lesser items;

Because under the plan proposed it would require congestion greater than that in the present subway in order that the City might ever get a profit upon its share of the investment, and even then would not receive such profit until a remote period of time, 1934, if we assume a congestion only slightly greater than that in the present subway, and 1929, if we assume complete saturation, which would represent crowding 25 per cent. greater than exists today;

Because this offer requires a separate accounting basis and separate method of determining revenue and operating expenses, together with a separate guaranty by the City against loss in the case of all future extensions constructed by the City, but not accepted by the Company. The Company will be able to bring all future extensions within the operation of this guaranty by the simple expedient of refusing to operate them;

Because the City has the opportunity to get transit relief without making so improvident a contract, either by awarding an operating contract to the Brooklyn Rapid Transit Company or by proceeding with the construction of the modified Triborough system.

PRESIDENT McANENY: May I say, speaking of course to the point, that the proposition that is now submitted to the Board was framed essentially in pursuance of an agreement reached by a majority of this Board in executive conference, and, although I am more than willing to allow for changes of opinion, it must be kept in mind that the committee would not have submitted an alternative plan, dealing with these points in the Interborough Company's case, had it not proceeded upon the understanding that it was acting in accord with the wishes of the majority of the Board of Estimate; nor, do I believe, would the Interborough Company have submitted a further proposition except upon such an understanding. The company was prepared to present a second proposition wholly rejecting the offer of the City up to the time that these later negotiations commenced. Now, as to its merits—

COMPTROLLER PRENDERGAST: Mr. McAneny has just made a statement and I think he has only done himself and his associates upon the Conference Committee full justice in making it. It is true, and I wish to publicly acknowledge it, that, in the deliberations of the Board of Estimate, in its executive sessions, it was the feeling of a majority of the members of that Board expressed at that time that an arrangement somewhat in accordance with the lines of the proposal submitted yesterday would be satisfactory to that majority; but I do not wish (because I have never run away from an issue yet) to relinquish one iota of my responsibility for having led the committee to believe that a proposition such as this would be approved, and if any embarrassment which my action has caused the committee, if it has been placed in a position that it does not relish, I certainly am very sorry, not only because I do not want them to be placed in that position officially but because I have a very warm personal regard for the members of the committee and especially for Mr. McAneny.

PRESIDENT McANENY: I did not wish to intimate that the committee would not have agreed upon the merits of this plan, because they are agreed. I meant merely to say that they would not have presented such a plan, taking further time and occupying further discussion here, had it not been with the feeling, the understanding, in fact, that it was to meet the express view of the majority. I appreciate, of course, what Mr. Prendergast says, and let it stand so upon the record.

When we come to the merits of the case, let me say this, that the special committee of the Board, acting in conjunction with the Public Service Commission, has for some four or five months been at work upon this problem. I may say also that this has not been a usurpation of the functions of the Public Service Commission to any degree, but an acceptance of an invitation from the Commission that your committee should meet with it and talk these matters over with the object of avoiding the hitherto endless chain of reports, letters and public discussions and actually get together upon a solution of this tremendous problem upon which the future development of the city might be based. In a sense, it may be said that the plan presented here is the plan of both bodies, sitting side by side, and just as original to one as to the other. The Public Service Commission appreciated, of course, that without concurrent action, when it came to the approval of contract and the appropriation of money, it would itself be powerless. I regard Chairman Willcox's action in inviting this conference as a very great public service, and the conduct of the Public Service Commission to have been such as to merit the approval of the entire community. I believe, also, that when the joint report was submitted that for the first time a substantial agreement upon which contracts might be made had been arrived at.

The report proposes that certain lines be so constructed that they will incidentally extend the area of the present service of the Brooklyn company, with additions in Manhattan. I won't rehearse these, of course. That other lines be reserved as logical extensions and expansions for the Interborough system. This being concluded, the members of the two bodies having placed these two systems in conjunction, partly in competition, through the short haul through the heart of the city, with existing lines, and through their various branches but with the intention of extending a five cent fare to perhaps 98 or 99 per cent. of the traveling public; that is to say, the plan would take the passenger for a five cent fare to districts that are now absolutely inaccessible, and incidentally open Brooklyn to the heart of Manhattan as no other method possibly could.

Let it be said, also, that we did not present merely a proposition from the Interborough Company, or from the Brooklyn Rapid Transit Company, in our report. We presented a proposition that had been worked up in a conference between the two bodies having official authority and the two applicant companies, to which the companies originally had been strenuously opposed, and in the development of which concession after concession had been made; and we reached the point where we had finally brought both to what we considered bargain terms.

The Brooklyn Rapid Transit Company after certain modifications accepted the terms imposed by the city and it is prepared to proceed when the Public Service Commission can draw the contracts. There remains the signing of these formal contracts, the negotiations of subsidiary terms, but I have regarded and still regard the action of this Board as constituting a moral contract by which the Brooklyn plan should and must be consummated.

The Interborough Company notified us that they could not accept our terms and at the same time enlist private capital to the degree we proposed.

In laying out the Brooklyn plan, we virtually created, first, a new city subway along the lines in large part of the old Triborough route. We propose to build that with city money and to link that with existing lines of the Brooklyn system under contracts that would give access to those lines and would compel them to reserve for even distribution with the city all profits of joint operation over those they are earning today.

In the case of the Interborough Company, having provided for the strategic disposition of the moneys of the city between the two systems in the way we believe would do the greatest good, we allowed $55,000,000 to $60,000,000 of city money for construction against a like sum to be provided by the company; $21,000,000 to $25,000,000 for equipment by the Interborough alone in order that this comprehensive plan, reaching everywhere, might be carried out, and in order that the city in aiding itself would not be compelled to starve itself at every other point and be compelled to deny to every neighborhood advantages which such neighborhoods require and to every locality the benefits that should flow to such localities through school buildings, the development of territory generally and all those other expenses that must come within our Corporate Stock Budget. In order to secure this benefit we have agreed to certain modified terms in connection with the Interborough Company. The Interborough Company informed us at the conference the other day, in considering their case that they could not get private capital on the terms originally proposed. Their officers were invited in, not by us, but by common agreement, I forget just where. We went over with them these conditions, and a great deal of data, and were satisfied that in order to allow that margin of safety that they required that some altered plan should be adopted.

In the plan on June 5 we proposed that the Interborough should keep unto itself all earnings of its present lines whatever they might be, and they earned 17 per cent. last year, and they will be earning 23 in 1915. There will be some drop, of course, when the new lines are opened. But whatever was earned under the present system was to be theirs and a new and involved system of accounting was to be provided to take care of our share in the operation of the new lines. They argued that beyond the border line they could not figure out to the satisfaction of their bankers a sufficient margin of profit in the first three or four years of operation to bring the bankers in. Then we reached this plan by which nothing is reserved in the income of the old lines but all the income of the old lines and all the income of the new lines is merged in the new; the old leases virtually merged in the new leases.

For the moment, brushing aside the question of relative percentages, and just what that means, it seems to me that a phrase of the report just read sums up the whole situation, that the Interborough Company undertakes to operate a system comprehending more than double the mileage of the present line, for an assured income of $1,000,000 less than it is receiving today for its operation of the present contracted system, and that it cannot get one cent more than that allowance until the city has reached the point where it earns more than $2,000,000 above its carrying charges.

But I submit, gentlemen, that in this issue it is not directly a matter of dollars and cents. I believe, and my committee believes, and the Public Service Commission believes, that we have adequately cared for that, that no possible plan could be reached, acceptable to the two parties, that would better this. Beyond all that, however, the importance to the City of New York of a logical and comprehensive plan of transportation upon which not only will all the people be enabled to ride, and to ride with greater comfort and at less cost, but by reason of which the taxable values of the entire city will be developed enormously and by reason of which the city itself will develop along lines proper to the city to develop along—this I consider to be of paramount importance to The City of New York and to overweigh all other considerations and that is what will be the result of the comprehensive scheme we give you.

Why, Mr. Mitchel, every principle you have professed to favor and for which you have striven in this Board is recognized in this plan—every principle. Short term leases—the right of the city to take over anything after ten years upon satisfactory, equitable payment; the swapping of leases upon the east and west legs of the present Manhattan lines. The right of the city to transfer to a second operator—the substitution of the passenger basis for car mileage basis, in the operation of extensions, which sounds technical but means a great deal in computing operating expense. Every principle you have contended for is contained in the report of this committee. The only issue left is the question of dollars and cents, whether or not we are allowing the Interborough more than it is entitled to earn as a reward for the operation of this line. Upon that point alone, pitched against all other consideration for the natural development of this city, we are at issue here this morning; and upon that point alone it appears to be clear that the company is to make less than it is making today upon a system twice as great.

Mr. Mitchel has gone deeply into an analysis of what the company would do with the money that it would earn under this plan. I repeat, as I have previously said, that that is not the direct concern of the city. It may spend the money it earns for dividends, and if it does spend it for dividends it is entitled to spend it for dividends. It does not matter whether this proceeds through the indirection of a holding company or directly from the company to its stockholders. If they are entitled to it, they are entitled to it. And that is the whole question before this Board.

As to the basis of the plans that we propose, it is suggested that the amount of money we reserve out of the first income for the protection of the operator would create a profit of between 13 and 14 per cent. upon money invested. Gentlemen, it is not a fair proposition to apply all of that reservation to the present money of the operator. That reservation represents not only what he is earning today, but it represents his services in getting in new capital, it represents his services in handling this road for years to come, it represents, in short, a return upon actual investment, new and old, in the aggregate and a return for services rendered that in an ordinary business enterprise would be considered modest. And upon such terms the city is able to proceed with the building of the comprehensive system of subways we have proposed.

When it comes to the question of the ability of these lines to carry the citizens of this city in the future I stick confidently to the figures provided by the statisticians of the Public Service Commission. I do not understand Mr. Mitchel's 950,000,000 passengers. I am willing to take the 800,000,000 passengers which the Public Service Commission has estimated will be the carrying power of these roads and the requirement placed upon them.

You cannot say that that capacity will be the exact number reached by merely multiplying the present basis of mileage, because as the development of the roads continues and as the city's population develops there will be developed many new short haul districts, there will be many new short haul districts in The Bronx, in Queens, in Brooklyn, in Manhattan. The new short haul traffic cannot be based on a limited system, but that it will be enormous must be conceded. It is conceded that 800,000,000 is a fair allowance for comfortable traffic, as New York understands comfortable traffic, in the years of the future, so that we would not only take care of our own carrying charges and realize our own investment but, from the added margin, we would cover over into our treasury more than $2,000,000 a year and still leave a profit to be divided between the two parties.

Now, gentlemen, as I have said, the conferees, when they presented that report, proposed a programme they intended should be carried out and that they believed this Board of Estimate desired should be carried out in the way they had presented it, and they were obliged in the course of that procedure to carefully examine into the facts with relation to the questions presented by the Interborough Company. They have presented a report and subscribed to their own belief that this is not only eminently fair to the city as a business proposition but that its rejection at this time would be little short of calamitous. They are perfectly willing to stand on that report.

And I urge the adoption of the resolutions supporting it.

PRESIDENT MITCHEL: Mr. McAneny has said that every principle that I have contended for is satisfied by this plan proposed. There is one principal, I think, that he has overlooked which I understand we were all in favor of, and that is that the city should be assured at least of a moderate return upon its own investment. I cannot perceive that this city is assured of even that moderate return by the proposed plan.

I agree with Mr. McAneny that it makes not the slightest difference what the company does with the money, once it gets it, but in considering the reasons for the company's demand for a certain sum of money it is in point to know what are the company's necessities and what prompts the company to make a demand for more than what I consider, at least, to be a just allowance, and I wish to remind Mr. McAneny in this connection of one thing—I wish first to say that Mr. McAneny first stated that this 9 and 9 per cent. on old and new capital is necessary in order to permit the company to enlist new capital.

PRESIDENT McANENY: Not all of it.

PRESIDENT MITCHEL (continuing): Now, I wish to remind him that in the course of these conferences I asked the representatives of the company, believing as I do that the City is financially able to carry this on for itself if it so elects, whether, if the City invested all of the construction money necessary to build the subway and thereby reduced the contribution of the Interborough Company from $75,000,000 to $25,000,000, whether that company would then be satisfied to take 9 per cent. on its old capital and 9 per cent. on its new capital. I was informed, no; that in that event the company would find it necessary to demand more than 9 per cent. upon its old capital in order to bring the total amount up to $11,250,000, because that sum it must have, and must have it simply because it has got to meet the overhead obligations of the Interborough-Metropolitan Company.

Now, when we come to that point where one of the parties to the negotiations insists he must have a certain sum of money, whether adequate and fair or not, then I think we have come to a point where negotiation must end, because there is nothing more to negotiate when it is a demand which cannot be waived, and for that reason I think the statement that this so-called compromise was necessary to enlist private capital is not quite accurate, since even if we relieved the company of the necessity of subscribing private capital for construction it still must stand upon its demand for $11,250,000.

PRESIDENT McANENY: One further word, Mr. Mayor. The point I made was not that this advance was necessary in its entirety to enlist private capital, but partly to enlist private capital. The sum that would be reserved to the company would represent the value of its existing leases, or at least about three-quarters of the value of its existing leases, and incidentally would take care of that margin of safety upon new investment that private capital demands, and that the company demands as a reward for services. I repeat, that so long as conditions are as they are, many other considerations enter, than those mentioned by Mr. Mitchel.

PRESIDENT MILLER: Mr. Mayor, perhaps I look at this matter from a different point of view. The direct profit which the City gets from the subways out of the rentals is its smallest profit. To me it is of very little importance whether the City gets one-half of one per cent. more or whether the City gets less or whether the company does likewise. It is, in my mind, the duty of the City to build the best subways, to give the people the best transit. No plan for the whole City, in my judgment, will be adequate unless it includes the present Interborough system. Whether the City has to meet a deficit or whether it has not to meet a deficit, the subways are essential. If the proposition as submitted by the Interborough Railroad is one that should be accepted, the best course for the City would be to take it. The only question is one of price, so that from my point of view throughout this whole transaction the only question has been whether the City could afford to pay the price. I think that the proposition we advocate in the report is a fair one. I think the City will gain in increased benefits a thousand times more than it ever could hope to gain by any other plan or direct income from the leases. Therefore, I think that we should adopt the report as suggested.

The resolution was then lost by the following vote:

Affirmative—The Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx and Richmond—6.

Negative—The Mayor, the Comptroller, President of the Board of Aldermen and the President of the Borough of Queens—10.

The President of the Borough of Manhattan offered the following:

Whereas, The Special Committee of the Board of Estimate and Apportionment appointed to consider pending transit proposals and the Public Service Commission for the First District, made a joint report to this Board bearing date of June 5, 1911, and transmitted under date of June 13, 1911, with relation to the construction, equipment and operation of additional lines of rapid transit railway within the City of New York; and

Whereas, This Board at a meeting held on June 21, 1911, concurred unanimously in the findings and recommendations of said joint report, with certain modifications set forth in the resolutions adopted upon such date applying to the respective proposals of the Interborough Rapid Transit Company and the Brooklyn Rapid Transit Company; and

Whereas, The recommendations of the Special Committee of the Board and the Public Service Commission, which were approved by the Board, provided that if the Interborough Company failed to accept the terms and conditions prescribed for the operation of the new lines of rapid transit railway allotted to it, certain said lines to be added to the system to be operated by the Brooklyn Company upon the general terms prescribed for the operation of the lines originally allotted to the said Company; and

Whereas, The Brooklyn Company, in a communication to the Conferees dated July 5, 1911, expressed its willingness to operate the additional lines upon the terms proposed, if so requested by the City; and

Whereas, The Interborough Company has failed to accept the terms originally proposed to it, and the Board has rejected the propostion of the Conferees to amend the said terms upon a basis that the Interborough Company has stated would be acceptable to it; therefore, be it

Resolved, That, in pursuance of the joint recommendations of the Special Committee of the Board of Estimate and Apportionment and the Public Service Commission for the First District as subsequently amended, the Board will approve contracts to be prepared by Public Service Commission under the general provisions of the Rapid Transit Act for the construction, equipment and operation of rapid transit railways along the lines now proposed for operation by the Brooklyn Rapid Transit Company—either through instrumentality of such new railroad company as may be organized for the purpose, or through its present agencies—and for the extension and third tracking of the existing elevated lines of the Brooklyn Rapid Transit Company; and be it further

Resolved, That the Public Service Commission be and it hereby is respectfully requested to submit to this Board at the earliest date practicable the forms of the contracts to be entered into for the equipment, operation and maintenance of the lines of rapid transit railway proposed for operation as aforesaid; and be it further

Resolved, That the Public Service Commission be and it hereby is respectfully requested to submit at the earliest date or dates practicable, for the further approval of the Board, the contract or contracts to be entered into for such portions of the said lines as are to be constructed at the expense of the City, and to acquaint the Board so far as practicable in advance of such submission with the incidental plans, specifications and estimates for such construction, in order that the Board may properly allow the appropriation of City funds to be expended in accordance therewith; and be it further

Resolved, That the Special Committee of the Board, consisting of the President of the Borough of Manhattan, the President of the Borough of The Bronx and the President of the Borough of Richmond, be hereby continued for the purpose of conferring and co-operating with the Public Service Commission in the carrying out of these recommendations, and in the determination of such questions of detail as were left undetermined in the joint report of the Conferees, including the resolutions of this date.

The following discussion ensued:

PRESIDENT McANENY: As I have said, the adoption of the Committee's plan involved automatically the adoption of a definite line of procedure. It was laid down that if the Interborough Company failed to accept the offer of the City on the lines laid down in the Committee's report, that the Public Service Commission should then be placed in such a position that the proposition might go to the Brooklyn Rapid Transit or to its successor in operation. We have proposed what in our judgment is a proper plan for bringing in the Interborough Company upon terms fair to the City and to the Company alike, and that plan is rejected. I do not believe that this matter should be left in the air for one day longer. The conferees have worked long and hard to bring about the result that is now before you for your determination. I believe that inasmuch as a majority of the Board has rejected the pending plan, that the only course for the conferees is now to proceed to take up the alternative, whether or not it incidentally does injury to the City, to The Bronx, Queens, or the west side of Manhattan.

I move the adoption of that part of the resolution now before the Board that relates to the contracts to be granted to the Brooklyn Rapid Transit Company or, as I have said, its successor in the public bidding. It is the purpose of that Company to organize a new company to take over the lines that are under discussion. In so doing, I also move that we approve the offer of the Brooklyn Rapid Transit Company to operate these lines upon the basis the conferees have proposed. I so move.

COMPTROLLER PRENDERGAST: I second the motion.

PRESIDENT MITCHEL: This is what we voted that we would do in case the Interborough Rapid Transit Company did not meet the City's demands. We are now called upon to do it. I believe that we should do it for practically the same reasons that I believe we should not have done the other thing.

The routes which will be operated by this Company, under the contract proposed, will be to all intents and purposes the same trunk lines and extensions as the Triborough route which I for one have always believed in, modified by the Broadway loop.

The outlined system will be practically the same. It means digging subways; it means action; it means the settlement of this difficulty. It differs in every essential from the proposition that we have just rejected. In distinction from the preferential of $11,250,000, a preferential is allowed here of only $3,500,000, and that upon an investment in the Company's own plant, built with its own money upon its own initiative, and not upon a plant built with City money and upon the City's initiative. That preferential represents about 8¾ per cent. upon the old capital stock of the old Brooklyn Company and 6 per cent. on the new, as against 9 per cent. on the old capital stock and 9 per cent. on the new capital stock of the Interborough. For these reasons I think that these resolutions offered by the Committee should be adopted.

PRESIDENT MILLER: I voted for the plan to give the Brooklyn Rapid Transit the entire contract on the theory that we would do it if we could not get a reasonable contract from the Interborough Rapid Transit Company. I think we have a reasonable proposal from the Interborough Rapid Transit Company and, therefore, I am opposed to this proposition.

THE MAYOR: May I inquire with what corporation this contract is to be made?

PRESIDENT McANENY: The lines now under operation by the Brooklyn Rapid Transit Railway Company are owned by the Brooklyn Union Elevated Railroad Company. Some of them are leased from the Canarsie Company, which would be merged with the other under that corporate control. The new lines would be advertised at public letting under terms which would permit the City, if the authorities so decide, to link them with the old lines.

There would be three separate contracts at least, possibly four. One for operation of the Broadway, Manhattan, and Fourth Avenue, Brooklyn, system with their extensions; one for the proposed line from Union square to the Eastern District of Brooklyn, each of these two to be wholly separable and recapturable; and one for the operation of the existing Brooklyn elevated lines with the Centre street loop as their connecting link.

The contracts will be so drawn, if this plan is to be carried out——

THE MAYOR: Contracts with whom?

PRESIDENT McANENY: Contracts with the successful bidder; contracts as advertised. They will be so drawn that they will link these systems.

There are, of course, items of legal procedure, items that belong to the requirements of the Rapid Transit Act, that remain to be worked out.

The conferees who proposed this plan have no doubt of the legal ability of the City to enter into it and no doubt whatever of its economic desirability; nor have they any doubt of the fitness of the present plant of the Brooklyn Rapid Transit Company, nor any doubt of the financial ability of the Brooklyn Company to carry out what it undertakes. I trust this resolution will be adopted and that the City will proceed with actual construction as fast as it can.

THE MAYOR: The so-called offer of the Brooklyn Rapid Transit Company says that the contract is to be made with some corporation hereafter to be formed. I cannot vote to make a contract with any corporation that does not exist and may never exist, and when it does exist, may be some stock jobbing corporation that we would not have anything to do with whatever. This is a very grave matter. In my judgment, we will get into a lawsuit that may tie up this matter for a year or two or three years, and I suggest that this matter lie over until we can think it over. Until we can think it over for twenty-four hours or even for a few days. I did not know that any such resolution as this was going to be offered.

PRESIDENT McANENY: It was proposed in a report some weeks ago.

THE MAYOR: I have very often expressed my views to the Board, and while I always am willing to submit my judgment to better judgments, I give it to you as my opinion that such a resolution, if now passed, would lead to nothing but a lawsuit. The form also of the substance that you want to put into that contract would lead to another lawsuit under the Constitution of this State. I do most sincerely hope that we avoid a lawsuit that will tie us up for two or three years. I think we may well take two or three days to consider this matter. I hope we will do so today—at least without taking action one way or another at this time.

PRESIDENT McANENY: May I say one word in regard to your suggestion. In the first place, as to your query as to how we can make a contract with a company not named. We are not proposing to make a contract but to co-operate with the Public Service Commission in enabling that Commission to prepare the forms of contracts for public advertisement, along such lines as we permit. A company, to do this work, must bid for it successfully, and it must be assumed that that company, whether now in existence or hereafter, organized, will be organized under circumstances that will vouch for its reliability. If it is not a proper company, it will not make a contract with The City of New York.

Also, that if there be danger of a lawsuit based on any terms now proposed, that that lawsuit could not possibly restrain the City from building its own lines so to be built by City money.

PRESIDENT MITCHEL: By separate contracts for construction.

PRESIDENT McANENY: There are to be three separate operating contracts. The lines that are to be built by the City may proceed at any moment and might have been commenced a year ago if we had seen our way clear at that time. By the time that those lines are completed and ready for operation in conjunction with the Brooklyn system, any questions of law, in my judgment, may readily be threshed out in the courts, upon agreed cases, and I have no doubt that the courts will gladly co-operate with the City in hurrying those cases, as they will readily recognize that they are matters of great public emergency.

I wish we could meet your Honor's suggestion for further delay, even if for a few days, but it seems to me this is the moment to act. In view of the long delay that has already been occasioned, by reason of the numerous conferences necessary to bring about this plan, I feel that, even if I violate courtesy to you, that it is my duty to move the adoption of this resolution.

PRESIDENT MILLER: I voted for the Brooklyn Rapid Transit proposition to come up to 59th street because I thought it proper. I still stand by that. The main reason I advocated the Interborough plan was because I thought it had the best present physical layout and it cannot be exceeded in efficiency by any other plan. It should be taken not for the benefit of the Company but for the benefit of the City.

THE MAYOR: We will regret it very much, and I predict now that it is a very easy prediction to make, that it will come absolutely to naught. I wanted to say that my understanding is—of course, I have not given as much attention to this, for many reasons, as the Committee has given it—but my understanding is that no investor will invest one dollar in any bonds issued by this company or any company until the question of this guaranty is passed upon by the highest court in this State, and at the same time, I am advised further, that bankers would hesitate to buy City bonds issued for that purpose until the question has been passed upon by the highest courts in this State.

I therefore say, let us get our bearings, now that the matter has assumed a new aspect, before we do anything else. That has been my attitude from the beginning, and though I well know that my judgment may be inferior to that of other members of the Board who know more about it than I do, I still adhere to my opinion that the matter should not be passed upon at the present moment.

PRESIDENT McANENY: I feel bound, Mr. Mayor, to press my motion for the adoption of this resolution.

THE MAYOR: Of course, I have delicacy about voting on that question at all. It seems to be overlooked that these routes which are made up for the Brooklyn Rapid Transit Railway Company can never be established until approved by the Mayor, acting independently. The City has seen fit to place that safeguard over such matters as that. It is a power which I do not seek to exercise, and I would be very glad if I did not have it to exercise. Nevertheless, if that be put up to me I will exercise it as Mayor according to my best judgment for the whole City. I therefore ask that this thing stand until we confer together and with wise men of the City and with our neighbors; until we see just what we are about to do. That is all now that I wish to say on the subject.

COMPTROLLER PRENDERGAST: I think the members of the Board are prepared to assume their responsibility for whatever action they may take this morning. I wish to say that I am. I assume, Mr. Mayor, that when the time for your responsibility to be exercised comes that you will be prepared to exercise it. It is simply a question of each man standing up to his own responsibility when the time comes and assuming it. I hope the resolution will now be put to the Board so that we will have a chance to vote on it.

Mr. Charles L. Craig, representing the West End Association, addressed the Board in opposition to the proposed resolution. The resolution was then lost by the following vote:

Affirmative—The Comptroller, President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn and Richmond—11.

Negative—The Mayor and the Presidents of the Boroughs of The Bronx and Queens—5.

(Note—Under section 226 of the Greater New York Charter no resolution or amendment of any resolution shall be passed at the same meeting at which it is originally presented unless twelve votes shall be cast for its adoption.)

—

The President of the Borough of Manhattan moved that when the Board adjourns it adjourn to meet Friday, July 21, 1911, at 10.30 o'clock a. m., and the resolution which had just failed of adoption be ordered on the calendar for said date.

Which motion was adopted by the following vote:

Affirmative, The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following matter not on the calendar for this day was considered by unanimous consent:

Rapid Transit Railway, 59th Street, Queensboro Bridge Route.

The Secretary presented the following:

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your approval and the approval of the Mayor of the City as required by law certified copies of resolutions adopted by it on the 14th day of July, 1911, determining and establishing a route and general plan of construction for an additional rapid transit railroad to be known as the 59th Street, Queensboro Bridge Route, or Route No. 36.

This route is among those recommeneded for construction in the report dated June 5, 1911, of the Select Committee of the Board of Estimate and Apportionment and of the members of the Commission, which report was later approved by the Board of Estimate and Apportionment.

The route now adopted will connect the line under Broadway, 7th avenue and other streets in Manhattan by means of the Queensboro Bridge with the Borough of Queens, and besides meeting the all-important need of putting Queens on an all-rail connection with Manhattan will furnish needed crosstown facilities for the district in and around 59th street.

Dated July 17, 1911.

[SEAL]

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,
By W. R. WILLCOX, Chairman.

Attest: TRAVIS H. WHITNEY, Secretary.

The following was offered:

Resolved, That the communication be received, and in pursuance of law this Board hereby appoints Thursday, the 27th day of July, 1911, at 10.30 o'clock in the forenoon as the time and Room 16, City Hall, Borough of Manhattan, as the place when and where such plans and conclusions will be considered; and be it further

Resolved, That the Secretary be and he hereby is directed to cause notice of such consideration to be published in the CITY RECORD.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

FINANCIAL MATTERS.

The Secretary presented a resolution of the Board of Aldermen requesting an issue of $600 special revenue bonds (subdivision 8, section 188 of the Charter) to provide for the salary of an Automobile Engineman for the remainder of the year 1911, Office of the Chief of the Bureau of Licenses, Mayor's Office;

And communications as follows:

From the Commissioner of Water Supply, Gas and Electricity, requesting that the additional sum of $8,500 be appropriated from the water revenues of Brooklyn to provide for the equipment of new quarters for the Water Register's force:

From the Commissioner of Parks, Borough of The Bronx, withdrawing his request, presented to the Board at the meeting of June 29, 1911, and referred to the Comptroller for authority to award the contract for furnishing labor and materials for reconstructing and resurfacing the Bronx and Pelham parkway, from the Southern boulevard to the Butler street road, to other than the lowest bidder.

Which were referred to the Comptroller.

The Secretary presented a communication from the Acting President of the Borough of Queens, transmitting report of the Engineer in charge of Highways containing a list of streets, which it is requested that the Board adopt as City Highways to be repaved and maintained as such until officially mapped, physically opened and a complete paving authorized as an assessment matter, and submitting for adoption resolutions in each case authorizing the Borough President to charge the cost of repaving to the corporate stock account for repaving streets in the Borough of Queens.

Which was referred to the Chief Engineer of the Board and the Consulting Engineers of the various Boroughs.

The Secretary presented communications (3) relative to additional rapid transit railways, as follows:

From John Claflin, of New York, advocating the acceptance by The City of New York of the offer of the Interborough Rapid Transit Company;

From Henry S. Wood relative to his application for the construction of new subways, etc.;

From the Brooklyn League and Brooklyn Transit Conference, urging the adoption of the 'McAneny report," etc.

Which were referred to the Committee of the Whole.

The Secretary presented the following communication from the Comptroller submitting resolution requesting the Board of Aldermen to adopt a resolution requesting the Board of Estimate to authorize the issue of special revenue bonds to the amount of $14,972.25 for the purpose of expediting the work of repairing and resurfacing Thompson avenue and Hoffman boulevard, from Queens Bridge to Hillside avenue, in the Borough of Queens:

City of New York, Department of Finance, Comptroller's Office, July 20, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—For several months there has been an increasing clamor of protest from all parts of the City and from outlying sections regarding the bad condition of the thoroughfare in the Borough of Queens, known as Hoffman boulevard, which appears on the City maps as 'Thompson avenue and the Hoffman boulevard." This street runs from the Queensboro Bridge Plaza directly through the center of the Borough of Queens to Hillside avenue and Jamaica avenue, forming with these streets the central and principal avenue of street communication between the Borough of Manhattan and the outlying section of the Borough of Queens and Central Long Island. It is the only direct route for automobiles and vehicles of all sorts from the Borough of Manhattan to Long Island.

Its present condition is such as to make it almost impassable to automobiles, and extremely difficult of transit for other vehicles. So dangerous has its condition become during the past few months, that the Automobile Club of America has found it necessary to issue a special bulletin warning automobilists to avoid it, even at the extreme inconvenience of finding access from Manhattan Island to the main thoroughfares of Long Island by the devious routes through the Borough of Brooklyn.

The Long Island Real Estate Exchange, representing many of the principal property owners in Queens and suburban Long Island, as well as other organizations with similar interests, have made the intolerable condition of this avenue a subject for special meetings, have adopted resolutions calling upon the Borough and City authorities to remedy the evil, and are constantly appealing in every possible way for relief.

The Borough President of the Borough of Queens and the Commissioner of Public Works assert that they are now doing everything in their power within the limits of their appropriation to repair the street. Their reports show that they have now at work on Thompson avenue and Hoffman boulevard a force of 48 men. In the past six weeks, since they began the repair and resurfacing of this avenue, they have renovated nearly two miles from the Queensboro Bridge Plaza. At the present rate of progress they will be unable to complete the entire length of about eight and one-half miles from the Bridge Plaza to Jamaica avenue before the middle of November or the first of December.

It is clear that the loss to The City of New York in depreciation of real estate values, both in the Borough of Queens and suburban Long Island, and the wear and tear on automobiles and other vehicles which find it necessary to pass over this road, is very great. In my opinion it is the plain duty of the City to come to the relief of the Borough authorities of Queens in their effort to put the road in proper condition.

After consulting with the Borough President and the Commissioner of Public Works, in the Borough of Queens, I am of the opinion that the present force employed on this work should be augmented by three additional gangs of laborers, and that these additional gangs should work at separate points along Thompson avenue and Hoffman boulevard. The Commissioner of Public Works states that a gang consisting of 25 laborers, 1 foreman and 1 assistant foreman, together with teams, carts, utensils and materials, is the best working unit for this character of work. He estimates that such a gang or working unit should be able to complete at least one mile of resurfacing in a working month of twenty-eight days.

After careful examination of the estimates of the Commissioner of Public Works, I believe that the repair of the entire avenue can be completed in the manner which I have outlined within a period of thirty-nine working days.

In view of the urgent necessity of completing this work of repair as soon as possible, and in view of the character of Thompson avenue and Hoffman boulevard as the principal avenue of vehicular traffic between the Island of Manhattan and Central Long Island, I believe that it is just and reasonable that the City at large should bear the burden of the extra expense involved in repairing this avenue within the time mentioned, which is estimated at $14,972.25.

I, therefore, offer the following resolution for adoption. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby requests the Board of Aldermen at its next regular meeting to adopt the following resolution:

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to an amount not to exceed fourteen thousand nine hundred and seventy-two dollars and twenty-five cents ($14,972.25), the proceeds whereof to be used by the Borough President of Queens, under the appended schedules of Time, Material and Labor, for the purpose of expediting and completing the work of repairing and resurfacing the streets in the Borough of Queens known as Thompson avenue and Hoffman boulevard, from the Queensboro Bridge plaza to Jamaica avenue.

Schedules.

Time—	
39 working days.	
Materials—	
6 tar kettles, at $225 each	$1,350 00
3 steam rollers (rental), at $10 per day	1,170 00
1,200 cubic yards broken stone, at $2.65 per cubic yard	3,180 00
Labor—	
3 Foremen, at $4 per day	468 00
3 Assistant Foremen, at $3.25 per day	380 25
75 Laborers, at $2.50 per day	7,312 50
3 teams, at $6 per day	702 00
3 horses and carts, at $3.50 per day	409 50
	$14,972 25

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from Mr. Daniel F. Kiely offering to sell to the City the plants and franchise of the South Shore Water Works Company of Staten Island, together with a report of the Comptroller and the Chief Engineer of the Board, two of the Committee to whom this matter was referred April 27, 1911, stating that this Company has a small plant on the easterly side of Staten Island with a daily estimated supply of 100,000 gallons. The Commissioner of Water Supply, Gas and Electricity has stated, in response to an inquiry, that the City does not need this plant. Two members of the Committee, namely, the Comptroller and the Chief Engineer of the Board, are on this date submitting a general report on the subject of the appraisal of private water companies, and have pointed out that the most advantageous policy for the City to follow will be to abandon, at least temporarily, the sources of ground water supply upon the introduction of the Catskill supply. That it is believed to be unwise for the City to purchase the South Shore Company, except possibly to take over a portion of its distribution system, consisting of 6-inch pipe, the value of which has been estimated at $4,284:

(On April 27, 1911, the communication of Daniel F. Kiely as above, was referred to a Committee, consisting of the Comptroller, the President of the Borough of Richmond and the Chief Engineer of the Board.)

(On July 6 and again on July 13, 1911, the above matter was laid over for one week.)

Daniel F. Kiely, Counsellor-at-Law, 220 Broadway, St. Paul Building, New York, April 18, 1911.

Board of Estimate and Apportionment, City of New York:

Gentlemen—On behalf of the parties in interest, I beg to offer for sale to The City of New York, if it, or your Board on its behalf, is desirous of acquiring same by private purchase at a moderate price, the franchise, pumping plant, wells, standpipe, mains and complete distributing system and good will of the South Shore Water Works Company of Staten Island; this offer to include such real estate as is now used by said Company in conducting its business.

As this Company is the only private water company left on Staten Island, whose plant, etc., has not been acquired by The City of New York, and as it appears that the ultimate plans of the Department of Water Supply are intended to cover all Staten Island the Directors of this Company do not feel justified in making further expensive extensions of its service to new consumers, or to put additional capital into a business that will necessarily have to come into competition with a municipal plant in the near future. The municipal distributing system has already been brought into this Company's territory at Richmond and elsewhere.

Certainly the City can in consummation of its plan avail itself of such a plant as this Company's and just as certainly it can acquire it by purchase more cheaply than it can build its own. Respectfully yours, DANIEL F. KIELY.

Board of Estimate and Apportionment, City of New York, June 28, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—At the meeting of the Board of Estimate and Apportionment held on April 27, 1911, a communication was presented from Mr. Daniel F. Kiely, offering on behalf of the parties in interest to sell to the City "by private purchase, at a moderate price, the franchise, pumping plant, wells, standpipe, mains and complete distribution system and good will of the South Shore Water Works Company of Staten Island, this offer to include such real estate as is now used by said Company in conducting its business," which communication was referred to the Comptroller, the President of the Borough of Richmond, and the Chief Engineer of the Board.

The South Shore Water Works Company is a small plant on the easterly side of Staten Island, and the daily amount of water supplied by it is estimated to be about 100,000 gallons. In 1906 a Commission appointed by the Board of Estimate and Apportionment to investigate and report upon the value of the plants of the existing water works on Staten Island included in its report a description and inventory of the South Shore Water Company. From this report it appears that a franchise was granted to this Company by the town of Southfield on July 5, 1889; that the plant of the Company consisted of a standpipe 20 feet by 60 feet, about 14,850 feet of pipe, of which 8,550 feet was 4 inches or less in diameter; 18 hydrants, 16 gates and 4 meters, in addition to its wells and pumping plant. The value of its distribution system, including land at New Dorp, was given as $12,672, while the wells and pumping plant were estimated to have a value of $6,710. In describing the plant the Commission stated that it was "so small that it would not pay to operate it in connection with a general supply for the island." We have asked the Commissioner of Water Supply whether the Company has made any additions to its plant since the time of this report, and asked for an expression of his views as to the desirability of its purchase by the City, and he has stated in response to this inquiry that "the City does not need this Company's plant. New sources of supply are being developed by the Department in the Borough of Richmond, and at the present time there is an ample supply of water available in that Borough."

Two members of this Committee, namely, the Comptroller and the Chief Engineer of the Board, are submitting a report upon the general question of the appraisal of the value of the private water companies now doing business in the City, with a view to their possible purchase, and have pointed out that the most advantageous policy for the City to follow will be to abandon, at least temporarily, the sources of ground water supplies upon the introduction of the Catskill water in order to find a market for its new gravity supply. We believe that it would be unwise for the City to purchase the South Shore Water Company, except possibly to take over a portion of its distribution system, consisting of 6-inch pipe, the value of which is given in the report of 1906, made by the Commission already referred to, as $4,284.

Respectfully,

WM. A. PRENDERGAST, Comptroller; NELSON P. LEWIS, Chief Engineer; Board of Estimate and Apportionment.

The report of the Committee was approved by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented reports as follows:

Report of the Comptroller and the Chief Engineer of the Board, to whom were referred on June 15, 1911, specifications submitted by the Commissioner of Water Supply, Gas and Electricity for flaming arc lamps to be installed where deemed advisable in public buildings of the City.

(On July 6 and again on July 13, 1911, the above matter was laid over for one week.)

Report of the Comptroller and the Chief Engineer of the Board, to whom were referred on October 21, 1910, a communication from the Commissioner of Water Supply, Gas and Electricity relative to the acquisition of private water companies, in which he recommended that a special appropriation be made to conduct an investigation to determine the value of these private companies, etc.

(On July 6 and again on July 13, 1911 the above matter was laid over for one week.)

Which were laid over one week.

The Secretary presented the following communication from the Captain, 2d Battery, 1st Battalion, F. A., N. G., N. Y., requesting, and report of the Comptroller recommending, that the Board approve of the expenditure of $1,284 for the purpose of paying the compensation, at the rate of $3 per diem, of two Hostlers employed in the 2d Battery Armory, from June 1 to December 31, 1911, and that payment of same be made by the Comptroller from the proceeds of special revenue bonds issued pursuant to subdivision 7, section 188 of the Charter; also recommending approval of a schedule for said fund:

(On June 29, 1911, the request of the Captain, 2d Battery, First Battalion, F. A., N. G., N. Y., for the above appropriation was referred to the Comptroller.)

Second Battery, First Battalion, F. A., N. G., N. Y., Franklin Avenue and 166th Street, Bronx, New York, June 20, 1911.

Secretary, Board of Estimate and Apportionment, City of New York:

Sir—I have the honor to report that pursuant to par. 188-189, Military Laws, S. N. Y., I have appointed as hostlers (original) for the care of twenty (20) horses, the property of and for the use of the battery for military purposes, the following at a salary of three dollars ($3) per day each, from June 1, 1911.

Louis Meyer, of 406 East 176th street, New York.

Arthur F. Hirt, of 1053 Forrest avenue, New York.

The certificate from the Major-General Commanding Division N. G., N. Y., is on file in the office of the Comptroller, City of New York.

Will you kindly have the necessary funds provided to meet the expenses for the current year. Very respectfully, L. F. SHERRY, Captain.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 20, 1911, the Commanding Officer of the Second Battery, First Battalion, F. A., N. G., N. Y., requested the necessary funds to provide for the payment of two Hostlers appointed on June 1, 1911. In connection therewith I report as follows:

In June, 1911, the Major-General, Commanding Division N. G., N. Y., filed a certificate in the Department of Finance that there were twenty horses stabled in the Armory of the Second Battery. Under section 188 of the Military Law an armory is allowed one Hostler for the care of each ten horses stabled therein. The Second Battery is, therefore, entitled to two Hostlers. The law fixes the rate of compensation for Hostlers at $3 per diem.

It will require $1,284 for the payment of the incumbents from June 1, 1911, to the end of the year.

I recommend the adoption of the attached resolution approving of Special Revenue Bonds in the necessary amount, and a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the expenditure of a sum not to exceed one thousand two hundred and eighty-four dollars ($1,284) for the purpose of paying the compensation, at the rate of $3 per diem, of two Hostlers employed in the Second Battery Armory, from June 1, 1911, to December 31, 1911, and recommends that payment of the same be made by the Comptroller out of the sale of special revenue bonds of the City of New York, issued pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule of wages paid from other than budget funds in the National Guard and Naval Militia, County of New York, to take effect June 1, 1911, as follows:

The National Guard and Naval Militia, County of New York.

Wages, Regular Employees—

Revenue Bond Force, Second Battery:

Hostlers (365 days), 2 at, per day....................................	$3 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a report of the Commissioner of Parks, Borough of The Bronx, relative to a communication from the residents of Riverdale on the Hudson with regard to the conditions of the swamp areas in Van Cortlandt Park, and stating that an application for an issue of $6,000 to remedy said conditions was made in the corporate stock estimate for the year 1911, and as soon as funds are available the Department will proceed to improve the swamp lands.

Which was ordered filed and the Secretary directed to transmit a copy thereof to the Riverdale Health League.

(On July 13, 1911, the above communication was referred to the Commissioner of Parks, Borough of The Bronx.)

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 621, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the substitution of a Clerk, at $1,050 per annum, for one at $1,200 per annum, to be effective as of May 1, 1911:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, July 10, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—A Clerk, whose salary is $1,050, was transferred in the month of May from the Borough of Manhattan to the Borough of Richmond, Bureau of Water Register. His salary has not been paid for the reason that the schedule line for $1,050 Clerks had its full quota. The vacancy existing in that schedule is for $1,200, and I request that you recommend to the Board of Estimate and Apportionment a modification of the salary schedule for the appropriation entitled, "Water Supply, Borough of Richmond, Distribution, Water Registration, Permits and Revenue Collections, Salaries" (Code 621 of 1911), in order that this Clerk may be paid. A copy of the schedule so modified is attached. Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 17, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the 1911 salary schedule entitled "Water Supply, Borough of Richmond, Distribution, Water Registration, Permits and Revenue Collections, No. 621, Salaries." In connection therewith I report as follows:

It is proposed to add a Clerk at $1,050 per annum, and drop one at $1,200, the balance of $150 to be scheduled as unassigned.

The Commissioner states that a Clerk at the $1,050 rate was transferred in May from the Bureau of Water Registration, Manhattan, to the Bureau of Water Registration, Richmond, and that modification as of May 1, 1911, is necessary for payment of the incumbent.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
621.	Clerk	$1,200 00	....	$600 00	....
	Clerk	....	$1,050 00	....	$525 00
	Unassigned balance	....	150 00	....	75 00
		$1,200 00	$1,200 00	$600 00	$600 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of May 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Distribution, Water Registration, Permits and Revenue Collections, Borough of Richmond—

621. Salaries:

Cashier	$1,500 00
Clerk	1,650 00
Clerks, 2 at $1,500	3,000 00
Clerks, 10 at $1,050	10,500 00
Stenographer and Typewriter	1,050 00
Bookkeeper	1,350 00
Chief Inspector	1,500 00
Inspectors, 2 at $1,200	2,400 00
Inspectors, 12 at $1,100	13,200 00
Unassigned balance	150 00
	$36,300 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

—

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller, recommending the modification of Salary Schedule No. 584, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the appointment of two Clerks, one at $1,050 and one at $300 per annum, and the elimination of a Clerk at $1,350 per annum, to be effective as of July 1, 1911:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, July 7, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—I wish to fill a vacancy at $1,350, in the Borough of Queens, by the appointment of one Clerk at $1,050 and one at $300. To do so a modification of the present schedule is necessary.

I enclose a copy of the schedule so amended, and request that you recommend its approval by the Board of Estimate and Apportionment. Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 17, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Commissioner of Water Supply, Gas and Electricity on July 7, 1911, Salary Schedule, Water Supply, Borough of Queens. Distribution, Water Registration, Permits and Revenue Collections, No. 584, Salaries, Regular Employees, I report as follows:

It is proposed to appoint a Clerk at $1,050 and one at $300 per annum, the funds to be provided by dropping a Clerk at $1,350 per annum.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
584.	Clerk	$1,350 00	......	$675 00	......
	Clerk	......	$1,050 00	......	$525 00
	Clerk	......	300 00	......	150 00
		$1,350 00	$1,350 00	$675 00	$675 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Water Supply, Borough of Queens, Distribution, Water Registration, Permits and Revenue Collection—

584. Salaries, Regular Employees:

Cashier	$1,500 00
Financial Clerk	1,500 00
Clerk	1,650 00
Clerk	1,500 00
Clerk	1,350 00
Clerk	1,050 00
Clerks, 4 at $900	3,600 00
Clerk	300 00
Stenographer and Typewriter	900 00
Inspectors, 12 at $1,100	13,200 00
Foreman	900 00
	$27,450 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller, relative to the modification of Salary Schedules Nos. 627, 630, 631, 646, 654, 668, 686 and 692 supporting the appropriation made in the Budget for the year 1911, for said Department, providing for an increase of $150 per annum each in the salaries of nine incumbents, involving a transfer of $525, said modification to be effective as of July 1, 1911:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park row, City of New York, July 7, 1911.

The Honorable, the Board of Estimate and Apportionment, 277 Broadway, City of New York:

Gentlemen—In order to meet the requirements of this Department, I would respectfully request a further revision and modification of the schedules of Salaries and Wages supporting the appropriations made for this Department for the year 1911, as follows:

Heat, Light and Power, General Administration, Office of Chief Engineer—
627. Salaries, 1911:

—the lines which read:

Clerks, 2 at $900	$1,800 00
Inspector	1,650 00
Inspectors, 2 at $1,500	3,000 00
Inspectors, 3 at $1,350	4,050 00
Inspectors, 2 at $1,200	2,400 00
Stenographers and Typewriters, 3 at $1,200	3,600 00
Stenographer and Typewriter	1,050 00

—to read:

Clerk	$1,050 00
Clerk	900 00
Inspectors, 2 at $1,650	3,300 00
Inspector	1,500 00
Inspectors, 4 at $1,350	5,400 00
Inspector	1,200 00
Stenographer and Typewriter	1,350 00
Stenographer and Typewriter	1,200 00
Stenographers and Typewriters, 2 at $1,050	2,100 00

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, Administration—
630. Salaries, 1911:

—the lines which read:

Inspectors, 4 at $1,500	$6,000 00
Inspectors, 14 at $1,350	18,900 00
Unassigned	210 00

—to read:

Inspectors, 5 at $1,500	$7,500 00
Inspectors, 13 at $1,350	17,550 00

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting—
631. Lighting Public Buildings, 1911:

—the lines which read:

Inspector	$1,350 00
Inspectors, 6 at $1,200	7,200 00

—to read:

Inspectors, 2 at $1,350	$2,700 00
Inspectors, 5 at $1,200	6,000 00

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, Lighting Public Buildings—
632. Wages, Regular Employees, 1911:

—the line which reads Cleaner and Watchman is abolished.

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, Administration—
646. Salaries, 1911:

—the lines which read:

Inspectors, 2 at $1,350	$2,700 00
Inspectors, 8 at $1,252	10,016 00
Unassigned	300 00

—to read:

Inspectors, 3 at $1,350	$4,050 00
Inspectors, 7 at $1,252	8,764 00

Heat, Light and Power, Borough of Brooklyn, Bureau of Lamps and Lighting, Lighting Public Buildings—
654. Salaries, 1911:

—the line which reads:

Inspector	$1,350 00

—to read:

Inspector	$1,500 00

Heat, Light and Power, Borough of Brooklyn, Bureau of Electrical Inspection, Administration—
668. Salaries, 1911:

—the line which reads:

Unassigned	$254 00

—to read:

Unassigned	$126 00

Heat, Light and Power, Borough of Queens, Bureau of Electrical Inspection, Administration—

686. Salaries, 1911:

—the lines which read:

Inspectors, 4 at $1,350	$5,400 00
Inspectors, 4 at $1,200	4,800 00
Clerk	750 00

—to read:

Inspectors, 5 at $1,350	$6,750 00
Inspectors, 3 at $1,200	3,600 00
Clerk	900 00

Heat, Light and Power, Borough of Richmond, Bureau of Lamps and Lighting, Administration—

692. Salaries, 1911:

—the lines which read:

Clerk	$1,050 00
Unassigned	510 00

—to read:

Clerk	$1,200 00
Unassigned	60 00

If the requested modifications receive the approval of your honorable Board, it will necessitate transfers to and from the above noted appropriation accounts, dating as of July 1, 1911, pro rated for the succeeding six months, as follows:

From

Code No.	
630	$30 00
632	180 00
646	101 00
668	64 00
692	150 00
	$525 00

To

Code No.	
627	$225 00
631	75 00
654	75 00
686	150 00
	$525 00

Very truly yours,

J. W. F. BENNETT, Deputy and Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 17, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 7 and July 12, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of eight salary schedules in his Department for the year 1911, involving cash transfers aggregating $525. In connection therewith I report as follows:

It is proposed to increase nine incumbents $150 per annum each. The $1,350 necessary for the increases is available in the unassigned balances in four of the accounts.

The proposed increases are for the following employees:

William T. Blackwell, from $1,500 to $1,650 per annum. Mr. Blackwell is an Inspector in Bureau of Lamps and Lighting, Manhattan. He was appointed on October 26, 1906, at $1,200; and promoted on July 1, 1908, to the present rate.

Frank R. Nugent, from $1,200 to $1,350 per annum. He was appointed as an Inspector, Division of Public Buildings, Manhattan, on October 30, 1908, at the present rate.

William S. Keenan, from $1,350 to $1,500 per annum. He was appointed as an Inspector, Division of Street Lighting, Manhattan, on October 26, 1906, at $1,200, and promoted on July 1, 1908, to the present rate.

John F. Bergen, from $1,200 to $1,350 per annum. He was appointed as an Inspector, Division of Construction and Maintenance, Manhattan, on January 17, 1910, at the present rate.

John J. McHugh, from $900 to $1,050 per annum. He was appointed as a Clerk in the Auditing Division, Manhattan, on July 25, 1910, at the present rate.

Joseph T. Brennan, from $750 to $900 per annum. He was appointed as a Clerk in the Bureau of Electrical Inspection, Queens, on December 31, 1909, at $600, and promoted in 1910 to the present rate.

Miss Grace Brickwedel, from $1,200 to $1,350 per annum. Miss Brickwedel was appointed as a Stenographer in the Bureau of Electrical Inspection, Manhattan, at the present rate.

Thomas W. Rochester, Inspector, Bureau of Lamps and Lighting, Bookkeeper, from $1,350 to $1,500. He was appointed on November 1, 1906, at $1,200, and promoted on August 1, 1908, to the present rate.

Herbert W. Andem, Inspector, Electrical Bureau, Manhattan, from $1,200 to $1,500 per annum. He was appointed on December 10, 1909, at the present rate.

The following table shows the schedule changes in detail:

Account No.	Title.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
627.	Clerks, 2 at $900	$900 00		$450 00	
	Clerk at $1,050		$1,050 00		$525 00
	Inspector, 1 at $1,650		1,650 00		825 00
	Inspectors, 2 at $1,500	1,500 00		750 00	
	Inspectors, 3 at $1,350		1,350 00		675 00
	Inspectors, 2 at $1,200	1,200 00		600 00	
	Stenographer and Typewriter at $1,350		1,350 00		675 00
	Stenographers and Typewriters, 3 at $1,200	2,400 00		1,200 00	
	Stenographer and Typewriter, 1 at $1,050		1,050 00		525 00
630.	Inspectors, 4 at $1,500		1,500 00		750 00
	Inspectors, 14 at $1,350	1,350 00		675 00	
	Unassigned balance, $210	210 00		105 00	
631.	Inspectors, 1 at $1,350		1,350 00		675 00
	Inspectors, 6 at $1,200	1,200 00		600 00	
646.	Unassigned balance, $300	300 00		150 00	
654.	Inspector, 1 at $1,350	1,350 00		675 00	
	Inspector at $1,500		1,500 00		750 00
668.	Unassigned balance, $254	240 00		120 00	
686.	Inspectors, 4 at $1,350		1,350 00		675 00
	Inspectors, 3 at $1,200	1,200 00		600 00	
	Clerk, 1 at $750	750 00		375 00	
	Clerk at $900		900 00		450 00
692.	Unassigned balance, $510	450 00		225 00	
		$13,050	$13,050 00	$6,525 00	$6,525 00

The attached resolutions, if adopted, will grant the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules as revised for the Department of Water Supply, Gas and Electricity, for the year 1911, to become effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Heat, Light and Power, General Administration, Office of Chief Engineer—

627. Salaries:

Chief Engineer of Light and Power	$7,500 00
Assistant Chief Engineer of Light and Power	5,000 00
Electrical Engineer	4,000 00
Clerk	3,000 00
Clerk	2,400 00

Clerk	1,950 00
Clerk	1,500 00
Clerk	1,200 00
Clerk	1,050 00
Clerk	900 00
Clerks, 2 at $600	1,200 00
Clerk	540 00
Clerk	300 00
Inspector	2,250 00
Inspector	1,800 00
Inspectors, 2 at $1,650	3,300 00
Inspector	1,500 00
Inspectors, 4 at $1,350	5,400 00
Inspector	1,200 00
Topographical Draftsman	1,350 00
Stenographer and Typewriter	1,350 00
Stenographer and Typewriter	1,200 00
Stenographers and Typewriters, 2 at $1,050	2,100 00
Stenographer and Typewriter	900 00
	$52,890 00

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Lamps and Lighting, Administration—

630. Salaries:

Clerk	$1,950 00
Clerk	1,050 00
Clerk	900 00
Clerks, 3 at $600	1,800 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Architectural Draftsman	1,950 00
Draftsman's Helper	1,050 00
Junior Draftsman	1,050 00
Junior Mechanical Draftsman	900 00
Inspector	2,250 00
Inspector	1,800 00
Inspector	1,650 00
Inspectors, 5 at $1,500	7,500 00
Inspectors, 13 at $1,350	17,550 00
Inspectors, 6 at $1,200	7,200 00
Automobile Engineman	1,500 00
	$52,350 00

Lighting Public Buildings—

631. Salaries:

Inspector	$2,250 00
Inspectors, 2 at $1,500	3,000 00
Inspectors, 2 at $1,350	2,700 00
Inspectors, 5 at $1,200	6,000 00
Clerk	1,200 00
Clerk	900 00
Clerk	600 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	900 00
	$18,750 00

Heat, Light and Power, Boroughs of Manhattan and The Bronx, Bureau of Electrical Inspection, Administration—

646. Salaries:

Inspector	$2,250 00
Inspector	1,800 00
Inspectors, 9 at $1,500	13,500 00
Inspectors, 2 at $1,350	2,700 00
Inspectors, 8 at $1,252	10,016 00
Inspectors, 5 at $1,200	6,000 00
Clerk	1,800 00
Clerk	1,350 00

Clerk	1,050 00
Clerk	900 00
Clerks, 3 at $750	2,250 00
Clerks, 2 at $600	1,200 00
Stenographers and Typewriters, 2 at $1,050	2,100 00
Stenographer and Typewriter	900 00
	$47,816 00

Heat, Light and Power, Borough of Brooklyn, Bureau of Lamps and Lighting, Lighting Public Buildings—

654. Salaries:

Inspector	$2,250 00
Inspector	1,500 00
Inspectors, 3 at $1,200	3,600 00
Stenographer and Typewriter	1,050 00
	$8,400 00

Heat, Light and Power, Borough of Brooklyn, Bureau of Electrical Inspection, Administration—

668. Salaries:

Inspector	$1,650 00
Inspectors, 2 at $1,500	3,000 00
Inspectors, 3 at $1,350	4,050 00
Inspectors, 4 at $1,252	5,008 00
Inspectors, 4 at $1,200	4,800 00
Clerk	1,350 00
Clerk	900 00
Clerks, 2 at $600	1,200 00
Clerk	300 00
Stenographer and Typewriter	1,200 00
Unassigned	14 00
	$23,472 00

Heat, Light and Power, Borough of Queens, Bureau of Electrical Inspection, Administration—

686. Salaries:

Chief Inspector	$2,250 00
Inspectors, 2 at $1,500	3,000 00
Inspectors, 5 at $1,350	6,750 00
Inspector	1,252 00
Inspectors, 3 at $1,200	3,600 00
Clerk	1,200 00
Clerk	900 00
Clerk	600 00
Stenographer and Typewriter	900 00
	$20,452 00

Heat, Light and Power, Borough of Richmond, Administration—

692. Salaries:

Chief Inspector	$2,250 00
Inspectors, 6 at $1,200	7,200 00
Inspector	1,500 00
Clerk	1,050 00
Clerk, Knowledge of Typewriting	540 00
Stenographer and Typewriter	1,050 00
Unassigned	60 00
	$13,650 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfers of funds appropriated to the Department of Water Supply, Gas and Electricity for the year 1911, to become effective as of July 1, 1911, as follows:

From

Heat, Light and Power, Boroughs of Manhattan and The Bronx—	
Bureau of Lamps and Lighting:	
630. Administration, Salaries	$30 00
Bureau of Electrical Inspection:	
646. Administration, Salaries	150 00
Heat, Light and Power, Borough of Brooklyn—	
Bureau of Electrical Inspection:	
668. Administration, Salaries	120 00
Heat, Light and Power, Borough of Richmond—	
Bureau of Lamps and Lighting:	
692. Administration, Salaries	225 00
	$525 00

To

Heat, Light and Power—	
General Administration:	
627. Office of Chief Engineer, Salaries	$225 00
Heat, Light and Power, Boroughs of Manhattan and The Bronx—	
Bureau of Lamps and Lighting:	
631. Lighting Public Buildings, Salaries	75 00
Heat, Light and Power, Borough of Brooklyn—	
Bureau of Lamps and Lighting:	
654. Lighting Public Buildings, Salaries	75 00
Heat, Light and Power, Borough of Queens—	
Bureau of Electrical Inspection:	
686. Administration, Salaries	150 00
	$525 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the Department of Health requesting, and report of the Comptroller relative to, the modification of Salary Schedules Nos. 333 and 345, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the transfer of a Medical Inspector at $2,550 per annum to fill a vacancy in the same position at $3,000 per annum, for an increase in the salary of a Medical Inspector from $1,200 to $1,500 per annum, and for the substitution of a Medical Inspector at $1,500 per annum for a Bacteriologist at the same rate, said modification to be effective as of July 1, 1911:

Department of Health, City of New York, Southwest Corner 55th street and 6th avenue, Borough of Manhattan, Office of the Secretary, New York, July 7, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held July 6, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to approve of the following further changes and modifications in the schedules supporting the appropriations made to the Department of Health for salaries for the year 1911:

Supporting Schedule to No. 345, Administration, Division of Communicable Diseases, Salaries:

Change item "Bacteriologists, 2 at $1,500, $3,000," to read "Bacteriologist, $1,500."

Change item "Medical Inspectors, 29 at $1,500, $43,500," to read "Medical Inspectors, 30 at $1,500, $45,000."

A true copy, EUGENE W. SCHEFFER, Secretary.

Department of Health, City of New York, Southwest Corner 55th street and 6th avenue, Borough of Manhattan, Office of the Secretary, New York, July 7, 1911.

Hon. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment,* 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held July 6, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to approve of the following further changes and modifications in the schedules supporting the appropriations made to the Department of Health for salaries for the year 1911:

Supporting Schedule to No. 333, Administration, Division of Contagious Diseases, Salaries:

Strike out item "Medical Inspector, $3,000."

Change item "Medical Inspectors, $2,550," to read "Medical Inspectors, 2 at $2,550, $5,100."

Change item "Medical Inspectors, 11 at $1,500, $16,500," to read "Medical Inspectors, 12 at $1,500, $18,000."

Change item "Medical Inspectors, 46 at $1,200, $55,200," to read "Medical Inspectors, 45 at $1,200, $54,000."

Insert item "Unassigned balance, $150."

A true copy, EUGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 17, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to requests from the Board of Health on July 6, 1911, for modification of two schedules of salaries in the Department of Health for the year 1911, I report as follows:

In No. 333, Division of Contagious Diseases, it is proposed to fill a vacancy caused by the death of the Medical Inspector in charge, at $3,000 per annum, by the transfer from Brooklyn of Dr. S. Dana Hubbard, Medical Inspector, at $2,550. An increase in salary of $300 is requested for Dr. J. Franklin Dunkeith, Medical Inspector, at $1,200. Dr. Dunkeith was appointed on March 16, 1897. He was in charge of the Division of Contagious Diseases during the illness of the Medical Inspector in charge.

In No. 345, Division of Communicable Diseases, a Medical Inspector, at $1,500 per annum, is to be substituted for a Bacteriologist at the same rate.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
333.	Medical Inspector, at $3,000..	$3,000 00	......	$1,500 00	......
	Medical Inspector, at $2,550..	......	$2,550 00	......	$1,275 00
	Medical Inspectors, 11 at $1,500	......	1,500 00	......	750 00
	Medical Inspectors, 46 at $1,200	1,200 00	......	600 00	......
	Unassigned balance	......	150 00	......	75 00
345.	Bacteriologists, 2 at $1,500....	1,500 00	......	750 00	......
	Medical Inspectors, 29 at $1,500	......	1,500 00	......	750 00
		$5,700 00	$5,700 00	$2,850 00	$2,850 00

The attached resolution, if adopted, will grant the requests.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedules, as revised, for the Department of Health for the year 1911, to take effect July 1, as follows:

Administration, Division of Contagious Diseases—

333. Salaries:

Medical Inspectors, 2 at $2,550..................................	$5,100 00
Medical Inspectors, 7 at $1,800..................................	12,600 00
Medical Inspectors, 12 at $1,500..................................	18,000 00
Medical Inspectors, 45 at $1,200..................................	54,000 00
Sanitary Inspector	1,500 00
Veterinarian	1,800 00
Veterinarians, 7 at $1,200..	8,400 00
Clerk	2,550 00
Clerk	1,800 00

Clerk	1,500 00
Clerk	1,200 00
Clerks, 7 at $900	6,300 00
Clerk	750 00
Clerks, 4 at $480	1,920 00
Clerks, 3 at $300	900 00
Stenographer and Typewriter	900 00
Stenographers and Typewriters, 2 at $600	1,200 00
Typewriting Copyists, 6 at $600	3,600 00
Telephone Switchboard Operators, 2 at $900	1,800 00
Disinfectors, 7 at $1,050	7,350 00
Disinfectors, 30 at $900	27,000 00
Disinfectors, 8 at $750	6,000 00
Unassigned balance	150 00
	$166,320 00

Administration, Division of Communicable Diseases—

345. Salaries:

Medical Inspector	$3,000 00
Medical Inspector	1,800 00
Medical Inspectors, 30 at $1,500	45,000 00
Medical Inspector	1,200 00
Bacteriologist	1,500 00
Bacteriological Diagnosticians, 2 at $1,350	2,700 00
Bacteriological Diagnostician	1,050 00
Hospital Physicians, 2 at $1,200	2,400 00
Attending Physicians, 45 at $600	27,000 00
Assistant Attending Physicians, 10 at $300	3,000 00
Clerk	1,500 00
Clerks, 4 at $1,200	4,800 00
Clerk	1,050 00
Clerks, 8 at $900	7,200 00
Clerks, 6 at $750	4,500 00
Clerks, 2 at $540	1,080 00
Clerks, 13 at $480	6,240 00
Clerks, 8 at $300	2,400 00
Hospital Clerk	1,500 00
Hospital Clerks, 2 at $1,200	2,400 00
Hospital Clerk	900 00
Hospital Clerks, 3 at $750	2,250 00
Hospital Clerks, 4 at $600	2,400 00
Stenographers and Typewriters, 2 at $750	1,500 00
Stenographers and Typewriters, 2 at $600	1,200 00
Typewriting Copyist	900 00
Typewriting Copyist	750 00
Assistant Director, Bacteriological Laboratory	1,800 00
	$133,020 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Department of Taxes and Assessments requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 1342 supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the elimination of two Clerks, at $750 per annum each, and one at $600 per annum, and for the addition of a Clerk, at $540, and a Searcher, at $1,500 per annum:

Department of Taxes and Assessments of The City of New York, Borough of Manhattan, Hall of Records, July 10, 1911.

To the Honorable, the Board of Estimate and Apportionment of The City of New York:

Gentlemen—Application is hereby made to readjust the schedule supporting Appropriation Account 1342, Salaries and Wages, made in the Budget for 1911 for this Department to read as follows:

Schedule as passed by Board of Estimate and Apportionment on July 6, 1911:

28 Clerks, at $750	$21,000 00
4 Clerks, at $600	2,400 00
3 Clerks, at $540	1,620 00
2 Searchers, at $1,500	3,000 00
Unassigned balance	100 00

Proposed change in schedule:

		Increase.	Decrease.
26 Clerks, at $750	$19,500 00	....	$1,500 00
3 Clerks, at $600	1,800 00	....	600 00
4 Clerks, at $540	2,160 00	$540 00	....
3 Clerks, at $1,500	4,500 00	1,500 00	....
Unassigned balance	160 00	....	....
		$2,040 00	$2,100 00

The necessity for this request arises from the fact that one Clerk, to whom it was proposed to pay a salary of $600, is found not to be eligible for such salary, and also to provide for one additional Searcher, at $1,500 per annum.

Respectfully, LAWSON PURDY, President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 17, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1911, the President of the Department of Taxes and Assessments requested modification of the schedule of salaries supporting the Budget appropriation for the Department for the year 1911. In connection therewith I report as follows:

It is proposed to drop two Clerks at $750 per annum each and one at $600, and add a Clerk at $540 and a Searcher at $1,500 per annum, the balance of $60 to be scheduled as unassigned. The President states that a Clerk is not eligible for the $600 grade, and that the including of the Searcher in the schedule is necessary to meet payroll conditions.

The following table shows the line item changes in detail:

Account No.		Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
1342.	Clerks, 28 at $750	......	$1,500 00	......	$750 00
	Clerks, 4 at $600	......	600 00	......	300 00
	Clerks, 3 at $540	$540 00	......	$270 00	......
	Searchers, 2 at $1,500	1,500 00	......	750 00	......
	Unassigned balance	60 00	......	30 00	......
		$2,100 00	$2,100 00	$1,050 00	$1,050 00

I recommend the approval of the request by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised for the Department of Taxes and Assessments for the year 1911, as follows:

Department of Taxes and Assessments.

1342. Salaries:

President	$8,000 00
Commissioners, 6 at $7,000	42,000 00
Secretary	4,500 00
Assistant Secretary	3,200 00
Assistant to Commissioner	5,000 00
Assistants to Commissioner, 6 at $2,500	15,000 00
Deputy Tax Commissioner	4,500 00
Deputy Tax Commissioners, 8 at $4,000	32,000 00
Deputy Tax Commissioners, 5 at $3,500	17,500 00
Deputy Tax Commissioners, 16 at $3,250	52,000 00

Deputy Tax Commissioners, 6 at $3,000	18,000 00
Deputy Tax Commissioner	2,850 00
Deputy Tax Commissioners, 17 at $2,700	45,900 00
Deputy Tax Commissioners, 13 at $2,550	33,150 00
Deputy Tax Commissioners, 31 at $2,400	74,400 00
Deputy Tax Commissioner	1,650 00
Surveyor	7,000 00
Chief Deputy, Real Estate	7,000 00
Chief Deputy, Personal Estate	4,000 00
Chief Clerk	3,000 00
Chief Clerks, 3 at $2,550	7,650 00
Clerks, 6 at $1,800	10,800 00
Clerks, 8 at $1,650	13,200 00
Clerks, 17 at $1,500	25,500 00
Clerks, 14 at $1,350	18,900 00
Clerks, 25 at $1,200	30,000 00
Clerks, 23 at $1,050	24,150 00
Clerks, 15 at $900	13,500 00
Clerks, 26 at $750	19,500 00
Clerks, 3 at $600	1,800 00
Clerks, 4 at $540	2,160 00
Searchers, 3 at $1,500	4,500 00
Searchers, 2 at $1,350	2,700 00
Searchers, 3 at $1,200	3,600 00
Confidential Stenographers, 2 at $1,650	3,300 00
Confidential Stenographer	1,500 00
Confidential Stenographers, 2 at $1,350	2,700 00
Confidential Stenographers, 2 at $1,200	2,400 00
Messenger	1,800 00
Messengers, 4 at $1,350	5,400 00
Book Typewriters, 5 at $1,050	5,250 00
Unassigned balance	160 00
	$581,120 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communications from the Department of Parks, Borough of The Bronx requesting, and report of the Comptroller recommending, approval of the revised schedules of wages for the Corporate Stock Accounts Nos. 304-C and 304-D, Department of Parks, The Bronx, for the year 1911, to provide for temporary employees:

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, July 10, 1911.
Hon. William A. Prendergast, *Comptroller*, 280 Broadway, New York City:

Sir—Kindly submit to the Board of Estimate and Apportionment for their approval the following schedule of salaries and wages on corporate stock funds:

Department of Parks, Borough of The Bronx.

Code 304-C, Construction of Manure Pits Adjacent to Park Station—

Foreman, 2 months, at	$1,200 00
Laborers, 900 days, at	2 50
Carpenters, 4, 120 days, 30 days each, at	5 00
Bricklayer, 60 days, at	5 60
Blaster, 7 days, at	4 00
Plumbers, 2, 30 days, 15 days each, at	5 50
Double teams, 2, 60 days, 30 days each, at	4 50

Very truly yours,
T. J. HIGGINS, Commissioner of Parks, Borough of The Bronx.

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, July 10, 1911.

Hon. William A. Prendergast, *Comptroller*, 280 Broadway, New York City:

Sir—Kindly submit to the Board of Estimate and Apportionment for their approval, the following schedule of salaries and wages on corporate stock funds:

Department of Parks, Borough of The Bronx.

Code 304-D, Construction of Drinking Fountains in Various Parks—

Foreman, ½ month, at	$1,200 00
Laborers, 90 days, at	2 50
Plumbers, 2, 14 days, 7 days each, at	5 50
Bricklayer, 14 days, at	5 60
Double team, 7 days, at	4 50

Very truly yours,

T. J. HIGGINS, Commissioner of Parks, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 14, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to two communications from the Commissioner of Parks, Borough of The Bronx, under date of July 10, 1911, requesting approval of schedules of wages for the Corporate Stock Accounts, No. 304-C, Construction of Manure Pits Adjacent to Park Stations, and No. 304-D, Construction of Drinking Fountains in Various Parks, I report as follows:

The Commissioner states that it is planned to complete the improvements during the summer, and that the force requested is based upon an estimate of the Chief Engineer. The schedules are for temporary employees now on the payroll.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules paid from other than budgetary funds for the Department of Parks, Borough of The Bronx, for the year 1911, as follows:

Parks, Borough of The Bronx.

C-DP-304C—Construction of Manure Pits Adjacent to Park Stations:

Foreman (2 months), at, per annum	$1,200 00
Laborers (900 days), at, per day	2 50
Carpenters (120 days), at, per day	5 00
Bricklayers (60 days), at, per day	5 60
Blaster (7 days), at, per day	4 00
Plumbers (30 days), at, per day	5 50
Double teams (60 days), at, per day	4 50

C-DP-304D, Construction of Drinking Fountains in Various Parks:

Foreman (1½ months), at, per annum	$1,200 00
Laborers (90 days), at, per day	2 50
Plumbers (14 days), at, per day	5 50
Bricklayers (14 days), at, per day	5 60
Double team (7 days), at, per day	4 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented a communication from the Commissioner of Parks, Borough of The Bronx, requesting the additional issue of $4,345.90 corporate stock for reconstructing and resurfacing the roadway of the Bronx and Pelham parkway, from Williamsbridge road to the White Plains road, Borough of The Bronx.

Which was referred to the Corporate Stock Budget Committee consisting of the Comptroller, the President of the Board of Aldermen and the President of the Borough of Manhattan.

The following matters, not upon the Calendar for this day, were considered by unanimous consent:

The Comptroller presented a communication from the President of the Borough of Queens requesting the establishment of the position of Consulting Engineer in the office of said Borough President, at the rate of $6,000 per annum.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

The Comptroller presented the following communication from the Commissioner of Water Supply, Gas and Electricity requesting, and report of the Corporate Stock Budget Committee recommending an issue of $107,713.04 corporate stock to provide means for replenishing the account C-CM-2, Additional Water Fund, for the payment of obligations incurred by the Aqueduct Commission or by said Commissioner, as successor to said Commission, for the completed cost of the Croton Falls Reservoir, including engineering and contingent expenses:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 29, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—In my letter to you of November 9, 1910, referring to the cost of the contract made with James Molloy, later assigned to the Croton Falls Construction Company, for the construction of the Croton Falls Reservoir, it was estimated that the total amount would be $4,211,443.95. The contract is now completed and it has been determined that the total expense is $4,319,156.99.

It will be necessary to provide for the difference, $117,713.04, by the issue of corporate stock, and I request that in conformity with the provisions of section 32, chapter 490, of the Laws of 1883, you make such provision. Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the Commissioner of Water Supply, Gas and Electricity requested a further authorization of corporate stock to provide for the difference between the estimated and actual cost for the completion of the Croton Falls Reservoir.

The account entitled "C-CM-2, Additional Water Fund," was originally established to meet the expense of constructing aqueducts and reservoirs, under the jurisdiction of the Aqueduct Commission, as provided by section 32, chapter 490 of the Laws of 1883. Chapter 220 of the Laws of 1910, provided that the term of office of the Aqueduct Commission should expire on June 1, 1910; that all powers formerly vested in that Commission should devolve upon the Commissioner of Water Supply, Gas and Electricity, and that all other provisions of section 32, chapter 490 of the Laws of 1883 and its subsequent amendments, should remain in full force and effect.

The Commissioner states that the contract is now completed at a total cost of $4,319,156.99. On November 9, 1910, in a communication to the Board of Estimate and Apportionment, the Commissioners estimated the cost of completion at $4,211,443.95. The sum of $107,713.04 is required to liquidate the account.

We recommend, therefore, a further authorization of corporate stock to the amount of $107,713.04 by the adoption of the attached resolution.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 32, chapter 490 of the Laws of 1883, and sections 169, 170 and 518 of the Greater New York Charter, as amended by chapter 220 of the Laws of 1910, the Board of Estimate and Apportionment hereby authorizes the Comptroller to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding one hundred and seven thousand seven hundred and thirteen dollars and four cents ($107,713.04), to provide means for replenishing the account entitled "C-CM-2, Additional Water Fund," for the payment of obligations, properly chargeable to said account, already incurred by the Aqueduct Commission or by the Commissioner of Water Supply, Gas and Electricity as successor to said Commission, and for the completed cost of the Croton Falls Reservoir, including the engineering and contingent expenses incidential thereto, under the jurisdiction of the Commissioner of Water Supply, Gas and Electricity.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Comptroller presented the following communication from the Commissioner of Water Supply, Gas and Electricity requesting, and report of the Comptroller and the Chief Engineer of the Board recommending, that the Board approve of the proposed contract submitted by the Commissioner of Water Supply, Gas and Electricity with the Urban Water Supply Company, for furnishing and delivering into the existing mains of the City in the vicinity of the City's station No. 1, in the Borough of Queens, not less than 1,000,000 nor more than 3,000,000 gallons of water per diem, for a period of one year, at the rate of $55 per million gallons:

(On July 17, 1911, the communication from the Commissioner of Water Supply, Gas and Electricity, submitting the above contract, was referred to said Committee.)

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, July 12, 1911.

Board of Estimate and Apportionment, Mr. Joseph Haag, *Secretary,* 277 Broadway, Manhattan:

Dear Sir—I am transmitting herewith a proposed form of contract with the Urban Water Supply Company for the furnishing of a minimum supply of one million gallons of water daily and a maximum supply not to exceed three million gallons, for use in the Borough of Queens.

This contract has been drawn along the lines suggested by the committee which recently reported on the acquisition by the City of the private water companies.

The price to be paid for the water under this agreement is $55 per million gallons. The City is now paying at the rate of $65 for the same quantity. The contract is for a period of one year, with the privilege of renewal.

The Chief Engineer has certified that the rapid development of the Borough of Queens makes it imperative that the Department secure an additional supply of water.

I would, therefore, recommend that this contract be given early consideration and approval by the Board of Estimate and Apportionment. Yours truly,

HENRY S. THOMPSON, Commissioner.

Agreement, Made this day of , 1911, by and between The City of New York, hereinafter called "The City," a municipal corporation acting by and through the Commissioner of Water Supply, Gas and Electricity, hereinafter called "The Commissioner," duly authorized so to do by the Board of Estimate and Apportionment of the said City, and with the consent and approval in writing of both the Mayor and the Comptroller of said City, party of the first part, and the Urban Water Supply Company, a domestic corporation hereinafter called "The Company," party of the second part, witnesseth:

That the parties hereto mutually covenant and agree as follows:

First—The Company hereby agrees to deliver into the existing mains of the City in the vicinity of the City's Station No. 1, in the Borough of Queens, at such point as the Commissioner may select, not less than one million (1,000,000) gallons of pure and wholesome water pier diem, and as much more as may be agreed between the parties hereto, provided, however, that the total amount thus delivered shall not exceed three million (3,000,000) gallons per diem, and to begin the delivery of same within twenty (20) calendar days from ten (10) calendar days after the day the Mayor gives his separate written consent and approval of said contract.

Second—The Company hereby agrees that all pipes, etc., laid and used in order to make all necessary connection or connections for the supply of said water by the Company, are to be furnished by and laid at the expense of the said Company; and all work necessary to be performed in the laying of said pipes, etc., is to be paid for by the said Company.

Third—All such water to be taken from wells penetrating the water-bearing strata beneath the clay beds found on the north shore of Long Island, below the normal water table.

Fourth—These walls are located upon that portion of the premises shown on the diagram hereto attached, inserted in red, which diagram is made a part hereof.

Fifth—The City agrees to accept from the Company the water so to be supplied under this contract, and to pay therefor at the rate of fifty-five dollars ($55) per million gallons, and to pay for same as hereinafter set forth. The City will at all times, upon request of the Company, furnish or cause to be furnished to the said Company, a permit or permits for opening streets for the purpose of making repairs, laying mains, or shutting off the water in case of necessity, to enable the Company to comply with its obligations under this contract. All such permits shall be issued by the officer of the City having jurisdiction, and shall include such requirements as shall be fixed by said officer. The permits shall be furnished without expense to the Company for the issuing of such permits, but the Company shall pay all expenses incidental to the restoration of pavements, etc., including the cost of the inspection.

Sixth—It is mutually agreed that this contract shall continue for a period of one year, from ten (10) calendar days after the date of the Mayor giving his separate written consent and approval of this contract, that the Commissioner shall have, at the termination of the year, the option to renew it for either one or two years more as he may elect, upon thirty (30) days' notice in writing before the termination of the first year, so that the maximum termination of the contract shall not exceed three years from ten (10) calendar days after the date the Mayor gives his separate written consent and approval to this contract.

Seventh—The Company agrees that all water so delivered shall be practically odorless, tasteless, clear and colorless; shall be reasonably free from organic matter, and show no indication of sewage pollution. The amount of chlorine shall average for a period of two weeks not more than fifty parts per million (1,000,000) and shall at no time exceed seventy-five (75) parts per million; and the amount of iron shall average for a period of two weeks not more than five-tenths (5/10) part per million (1,000,000), and shall at no time exceed seven-tenths (7/10) part per million as a maximum. Samples shall be taken by the Commissioner at or near the point of delivery into the City's mains at such points and at such time as he may direct, and the taking and testing of the samples shall be entirely under his control and direction.

Eighth—Should the quality of water fall below the requirements of this contract and the standards as shown by analyses, and said water falling below the standards is pumped into the City's mains, it is expressly agreed that the City shall not pay any sum whatever for said water, even though it has been pumped into the City's mains and the City has received the use of same and has or will be paid for same from the householders or other persons or corporations using said water.

Ninth—In case the Company fails to pump into the City's mains the minimum amount of one million (1,000,000) gallons per diem for any day during the period of this contract, the Company agrees to pay the City ten dollars ($10) per million gallons, or fraction thereof, per diem, for the shortage from contract requirements, in any one day, which said sum of $10 per million gallons, or fraction thereof, per day, is hereby agreed upon, fixed and determined by the parties hereto as the damage which the party of the first part will suffer by reason of said default and not by way of penalty; and the said party of the first part, as may be determined in writing by the Commissioner of Water Supply, Gas and Electricity, may deduct and retain the said sum out of any moneys that may be due or become due under this agreement.

Tenth—The Company hereby agrees that they will not assign by power of attorney or otherwise any of the moneys payable under this agreement, unless by and with the consent signified in like manner, that no right under this agreement nor to any moneys due or to become due thereunder shall be asserted against The City of New York, or any Department, Bureau, officer or officers thereof, by reason of any so-called assignment in law or equity of this agreement, or any part thereof, or of any moneys due or to grow due thereunder, unless such assignment shall be authorized by written consent of the Commissioner of the Department of Water Supply, Gas and Electricity of The City of New York endorsed on this agreement.

Eleventh—In order to reasonably safeguard against interruption of the supply, the Company shall provide a reserve pumping unit which shall at all times be connected up and of sufficient capacity to substitute for any unit that may be temporarily disabled from any cause; and the Commissioner (except in case of accident not due, in his opinion, to any fault or neglect of the Company, its agents or servants or employees), shall have the right to abrogate this contract if the supply falls below the amount agreed to be furnished under this contract.

Twelfth—The Company agrees that all water supplied under this contract shall be delivered into the City's mains against the pressure that may be in the mains, but this pressure shall not be more than seventy (70) pounds per square inch at the point of delivery. Upon the termination of this contract, either party shall have the right to disconnect the Company's delivery pipe from the City's mains, but such disconnection shall be made in such a manner as not to cause unnecessary injury or inconvenience to either party hereto or to its property.

Thirteenth—On or before the fifth day of each and every month, or as soon thereafter as possible during the continuance of this agreement, the Company shall send to the Commissioner a written statement of the amount of water furnished during the preceding month, whereupon the Commissioner shall certify the amount of money to which the Company shall be entitled hereunder and shall annex to his certificate a requisition upon the Comptroller of the City to pay the Company the amount to which it shall be entitled as shown by said statement. On the requisition above provided for being presented to said Comptroller, he shall, within thirty days thereafter, pay to the Company the amount thereof.

Fourteenth—The quantity of water supplied by the Company shall be measured and ascertained by meter measurements. For this purpose the Company shall set on their delivery main near the point or points of connection to the City's mains, service and test meters of a size and type to be approved by the Commissioner. The connections to the meters must be so arranged that the flow will ordinarily pass through one or more service meters, but may be made to pass through one or more test meters after passing through the service meters. Provision must also be made for removing any meter for repairs without interrupting the supply. These connections, as well as the connections to the City's mains, shall be subject to the approval of the Commissioner. All meters used shall be tested by the Company at their expense to the satisfaction of the Commissioner, who shall have a representative present at such test to supervise the same and ascertain results. At the expiration of every three months from the commencement of the contract, and oftener if so determined by the Commissioner, the service meter or meters shall be compared by the test meter, and if a discrepancy be shown equal to or greater than five per cent. (5%), a correction equivalent to the full amount of the discrepancy shown at the time of test shall be made for one-half of the water delivered during the interval between such test and the preceding test. No correction shall be made, however, for any water delivered if the discrepancy shown be less than five per cent. (5%). Whenever, in comparing the service meter used to measure the flow with the test meter, the discrepancy equals or exceeds five per cent. (5%), the gearing on the former must at once be changed to agree with the readings of the latter. Either meter shall be removed and calibrated at the expense of the Company and in the presence of the Commissioner or his representative, whenever ordered by the Commissioner. The meters and connections shall be installed in a suitable chamber giving easy access for observation. In the same chamber, the Company shall install on the delivery main, at a point on the down-stream side of the meters to be approved by the Commissioner, a self-recording pressure gauge of approved make. The records of this gauge shall be the property of the City, but the Company shall be entitled to a copy thereof upon demand.

Fifteenth—This contract shall not confer any exclusive franchise upon the Company and is not to bar or in any manner affect any right The City of New York has to acquire the rights, privileges, franchises and property of the Company by condemnation proceedings or by agreement at any time; and in any such condemnation proceedings by or on behalf of the said City, or in any such agreement in estimating and determining the value of such property, rights, privileges and franchises, the value of the unexpired portion of the term of this contract shall not be considered in making the award; but nothing herein contained shall be construed to affect, lessen or impair any right, claim or demand upon the part of the Company for compensation for the value of the Company's property, rights, privileges and franchises to furnish and supply water to The City of New York and the inhabitants thereof, and to any other locality or its inhabitants. In case any such condemnation proceedings shall be taken, the term of this contract shall cease upon the payment of the award therefor, if such payment be made prior to the expiration of the contract as above provided.

It is hereby further agreed that if The City of New York acquires the plant and property of the Company by condemnation proceedings or by agreement, the going-concern value thereof shall not be enhanced, fixed or affected by the fact that the Company is furnishing water to the City, either under the terms of this contract or without a contract, nor by any payments made or being made by the City for water so furnished.

Sixteenth—The Company will execute and deliver to the City its bond, with sureties to be approved by the Comptroller of The City of New York, in the penal sum of thirty thousand dollars ($30,000), conditioned to save and hold the City, its officers, agents or employees harmless from all suits and actions of every description, and from all damages and costs by reason of injury to person or property, including streets, roads, highways and pavements on account of, or arising out of the acts or omissions of the Company, or its officers, agents or employees, or by reason of breaks or failures in the pumps, pipes or other apparatus of the Company; provided, however, that in the event of suit being brought, a notice thereof shall be given to the Company, either by mailing same or delivering same at the office of the Company at the address given at the time of the making of this agreement, or by leaving said notice at the residence of any officer of the Company, or any agent or employee of said Company, which shall have the right to employ counsel at its own expense to defend the same, and that it will pay each and every judgment recovered in the said suit. Said bond shall be further conditioned for the faithful performance by the Company of each and every condition, covenant and obligation imposed upon the Company by this agreement.

Seventeenth—It is hereby expressly agreed by and between the parties hereto that the said Commissioner of Water Supply, Gas and Electricity, or his succssor or successors, shall not nor shall any department or officer of said City be precluded or estopped by any return or certificate made or given by any Engineer, Inspector or other officer of The City of New York under or in pursuance of anything in this contract contained, from at any time showing the true and correct amounts of water furnished, the character and quality of said water, or from showing that the amount claimed to be due is not due under said certificates, or the true facts in relation to any matter contained in this contract; and any officer of any of the departments of The City of New York shall not be precluded by said certificate or certificates from showing any failure on the part of the said Company to carry out any of the terms of said agreement.

Eighteenth—This agreement shall not be binding or of any force unless the Comptroller of the City shall endorse hereon his certificate that there remains unexpended and unapplied, as provided in the Greater New York Charter, a balance of appropriation or fund applicable thereto sufficient to pay the estimated expense of executing this agreement, as certified by the officers making the same.

Nineteenth—This agreement, preliminary to its execution, has been submitted in all its details to the Board of Estimate and Apportionment, and after such submission the consent of the Board of Estimate and Apportionment has been given to the execution of this agreement, as submitted by a resolution passed on the 20th day of July, 1911, and this agreement has also received the separate written consents and approvals of both the Mayor and the Comptroller of The City of New York.

Twentieth—This agreement shall respectively bind and run in favor of the respective parties hereto and their respective successors and assigns.

In witness whereof, the Commissioner for and in behalf of the City, has hereunto set his hand and seal, and the Company has caused its corporate seal to be hereto affixed and these presents to be subscribed in its name by its President the day and year first above written; and the parties hereto have executed this agreement in triplicate, one part of which is to remain with the Commissioner of Water Supply, Gas and Electricity, one other to be filed with the Comptroller of The City of New York, and the third to be delivered to the said party hereto of the second part.

[L. S.]
As Commissioner of Water Supply, Gas and Electricity of The City of New York.

URBAN WATER SUPPLY COMPANY.
[SEAL] By........................
As President.

Approved as to form: JOHN L. O'BRIEN, Assistant Corporation Counsel.

State of New York, County of New York, ss.:

On this day of , 1911, before me personally came , to me personally known and known to me to be the Commissioner of Water Supply, Gas and Electricity and the person described in and who executed the foregoing instrument as such Commissioner, and he acknowledged to me that he executed the same as such Commissioner for the purposes therein mentioned.

State of New York, County of New York, ss.:

On this day of , 1911, before me personally came , to me known and known to me to be the President of the Urban Water Supply Company, who, being by me duly sworn, did say that he was the President of said Company and knew the seal of said Company; that the seal affixed to the foregoing instrument was such corporate seal; that it was thereto affixed by order of the Board of Directors of said Company, and that by like order he thereto signed his name and official designation.

In pursuance of section 471 of the Greater New York Charter, I do hereby give my consent to and approval of the foregoing proposed agreement in all its details, with the Urban Water Supply Company for supplying water in the Borough of Queens, to The City of New York.

Dated, New York, , 1911.

As Mayor of The City of New York.

In pursuance of section 471 of the Greater New York Charter, I do hereby give my consent to and approval of the foregoing proposed agreement in all its details, with the Urban Water Supply Company for supplying water in the Borough of Queens, to The City of New York.

Dated, New York, , 1911.

As Comptroller of The City of New York.

Know all men by these presents, That we, the Urban Water Supply Company, a domestic water works corporation of the State of New York, as principal, and the as surety, are held and firmly bound unto The City of New York in the sum of thirty thousand dollars ($30,000), lawful money of the United States, to be paid to The City of New York or its certain attorney, successors or assigns, for which payment, well and truly to be made, we bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

Sealed with our seals and dated the day of , 1911.

Whereas, The said Urban Water Supply Company has entered or is about to enter into a certain agreement with The City of New York, a municipal corporation acting by and through the Commissioner of Water Supply, Gas and Electricity of The City of New York, bearing date the day of , 1911, which agreement is hereto annexed and made a part hereof:

Now, therefore, the condition of this obligation is such that if the said Urban Water Supply Company shall save and hold The City of New York, its officers, agents and employees harmless from all suits and actions of every description, and from all damages and costs by reason of injury to person or property, including streets, roads, highways and pavements, on account of or arising out of the acts or omissions of the said Urban Water Supply Company or its officers, agents, or employees, or by reason of breaks or failures in the pumps, pipes or other apparatus of said Company, provided, however, that in the event of suit being brought immediate notice thereof shall be given to the said Company, which shall have the right to employ counsel at its own expense to defend the same; and that if said Company shall pay each and every judgment recovered in such suit; and that if said Company shall well and truly perform all and singular the terms, conditions, covenants and obligations imposed upon the said Urban Water Supply Company by said agreement; then this obligation to be void, otherwise to remain in full force and effect.

Sealed and delivered in presence of [SEAL]

[SEAL]

[SEAL]

State of New York, County of New York, ss.:

On the day of , 1911, before me personally came , to me known and known to me to be the President of the Urban Water Supply Company, who, being by me duly sworn, did say that he was the President of said Company and knew the seal of said Company; that the seal affixed to the foregoing instrument was such corporate seal; that it was thereto affixed by order of the Board of Directors of said Company, and that by like order he thereto signed his name and official designation.

[SEAL]

State of New York, County of New York, ss.:

On the day of , 1911, before me personally came , to me known and known to me to be the of the , who, being by me duly sworn, did say that he was the of said Company and knew the seal of said Company; that the seal affixed to the foregoing instrument was such corporate seal; that it was thereto affixed by order of the Board of Directors of said Company, and that by like order he thereto signed his name and official designation.

Board of Estimate and Apportionment, New York, July 18, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—At the meeting of the Board of Estimate and Apportionment held on July 13, there was submitted by the Commissioner of Water Supply, Gas and Electricity a proposed form of contract with the Urban Water Supply Company for furnishing a minimum supply of 1,000,000 gallons daily and a maximum supply not to exceed 3,000,000 gallons, for use in the Borough of Queens, at a rate of $55 per million gallons. The form of contract was referred to the Comptroller and the Chief Engineer of the Board for consideration.

This proposed contract with the Urban Water Supply Company has been the subject of two reports from the Committee. The first of these reports was on April 27, 1911, when we advised the Board that the contract as originally drawn had been changed in a number of particulars, but pointed out the fact that there might be a question as to the expediency of entering into a contract with a company operating under an old franchise, but not being in business at the present time, and creating thereby a going concern value which the City might be obliged at some time in the future to pay for if it attempted to extinguish the various private water companies in The City of New York. The Committee therefore recommended that the matter be referred back to the Commissioner for a distinct recommendation as to whether, in view of these facts, he believed that a contract should be made.

Again, on July 6, the Committee reported upon a communication from Mr. Reon Barnes requesting the Board to take action on the proposed contract, and stated that this contract was not now before the Board, but had been referred to the Commissioner of Water Supply, and advising that the Committee believed that the contract as now drawn properly protected the interests of the City, there having in addition to the changes referred to in the first report been introduced another section in which the Company stipulated that in case the City should desire at any time in the future to acquire the property, right, privileges and franchises of this company, the compensation to be paid should not be increased by reason of the proposed contract.

The Commissioner of Water Supply, Gas and Electricity has again submitted the contract in its revised form, with a statement "that the rapid development of the Borough of Queens makes it imperative that the Department secure an additional suuply of water," and recommending that the contract be given early consideration and approval.

We believe that the Commissioner's statement of the situation in the Borough of Queens should be conclusive, and as we consider that the contract is now in proper form, it is recommended that it be approved and that its execution be authorized.

Respectfully,

WM. A. PRENDERGAST, Comptroller; NELSON P. LEWIS, Chief Engineer, Board of Estimate and Apportionment.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby assents to and approves of, in all its details, the proposed contract or agreement submitted by the Commissioner of Water Supply, Gas and Electricity under date of July 12, 1911, between The City of New York, by the Commissioner of Water Supply, Gas and Electricity, and the Urban Water Supply Company, for furnishing and delivering into the existing mains of the City in the vicinity of the City's Station No. 1 in the Borough of Queens, not less than one million (1,000,000) gallons, nor more than three million (3,000,000) gallons of water per diem for a period of one (1) year beginning at a date ten (10) days after the approval thereof by the Mayor, with an option for renewal of either one (1) or two (2) years, at the rate of Fifty-five dollars ($55.00) per million gallons.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary presented the following communication from the Commissioner of Records of New York County, requesting approval of the purchase at a price not exceeding $10,000, of newspaper files from the New York Press Club, together with a report of the Comptroller recommending the approval of said request:

(On June 15, 1911, a communication from the Commissioner of Records, New York County, relative to the above purchase, was referred to the Comptroller.)

Commissioner of Records of the County of New York, Hall of Records, Borough of Manhattan, New York City, June 12, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Dear Sir—Under the authorization contained in chapter 292, Laws of 1911, and subject to the approval of the Board of Estimate and Apportionment, as the act provides, I desire to purchase from the New York Press Club, "for the County of New York, to be preserved as a part of the public records in the office of the Clerk of said County," files of newspapers published in the City and County of New York, beginning with the "Weekly Herald," from 1837 to 1855, and including the New York "Tribune," from January, 1846, the New York "Herald," from July, 1847, the "Times," from July, 1850, the "World," from January, 1863, and the "Sun," from January, 1870, up to this date.

Of these there are, in all, more than one thousand volumes.

The Press Club offers to sell these files to the County of New York, to be preserved as the law provides, for the sum of ten thousand dollars.

These papers are all in excellent condition, having been cared for and guarded as a valued asset of the Press Club during all the years of its existence. Taken together they constitute a record of the history of the City, of the Nation and the World for more than seventy years past. Their value for reference must become greater as time advances.

These newspaper files are included in the published assets of the club at a valuation of $25,000, that amount having been offered for them, as I am informed, several years ago. At that time the club, by a vote of its Board of Directors, decided not to part with them.

Since then the club has built a new clubhouse where, because of increased membership and room required for social purposes, it has not been possible to afford the space necessary to keep these newspaper files accessible for reference, and they are stored in the basement of the Press Club building.

For that reason they may now be purchased for a sum which I believe to be far below their real value, if that can be computed in dollars. It is in fact difficult to fix a money value for them, as it would not be possible to replace them if they were destroyed.

The club has offered to sell these newspaper files to the County of New York, with the assurance the law gives that they will be kept as a part of the public records, where they will be accessible for public reference.

If I am autthorized to purchase them to be kept as a part of the records of the County of New York, they can be preserved in the office of the Clerk of the County of New York in the Hall of Records, under conditions that will safeguard them against loss or injury.

I believe they should be made a part of the public records, and preserved for public reference.

I, therefore, ask the Board of Estimate and Apportionment to approve of the purchase of these newspaper files by the Commissioner of Records of the County of New York for the sum of $10,000. Very respectfully submitted,

WILLIAM S. ANDREWS, Commissioner of Records, County of New York.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 19, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 12, 1911, the Commissioner of Records, New York County, pursuant to the provisions of chapter 292 of the Laws of 1911, requested the Board of Estimate and Apportionment to approve of the purchase of certain files of newspapers from the New York Press Club at a cost of $10,000. In connection therewith I report as follows:

The files are of the following newspapers, published in the City and County of New York:

"Weekly Herald," 1837 to 1855; New York "Tribune," 1846 to date; New York "Herald," 1847 to date; New York "Times," 1850 to date; New York "World," 1863 to date; New York "Sun," 1870 to date. There are 1,030 bound volumes of the newspapers, all in a good state of preservation.

It is stated that the increased membership in the Press Club has made it necessary to provide more room for social purposes. The files have been stored in the basement of the clubhouse because of lack of room.

Inquiry in the different City libraries shows that no library has complete files of these newspapers. The New York Public Library has only complete files of the New York "Sun" and the New York "World." The files of the "Weekly Herald" are missing from 1837 to 1841, and of the New York "Times" for 1850 and to 1851. The files of the "Herald" for 1854 and 1855 are also missing.

The Commissioner states that if the purchase is approved the files will be preserved as a part of the records of the County of New York in the office of the County Clerk, where they will be accessible to the public.

Chapter 292 of the Laws of 1911 provides in part as follows:

"Said Commissioner is hereby authorized to purchase for the County of New York, to be preserved as a part of the public records in the office of the Clerk of said County, such books, papers, newspaper files or manuscripts, printed in or pertaining to said County and having in his judgment historic value or containing information of public interest, and to provide for the care and preservation thereof, in the manner directed for the care and preservation of the public records in the office of the Clerk of the County of New York, by section two of this act, provided, that there shall not be expended for such purchase or purchases an amount to exceed fifteen thousand dollars, and that no such purchase shall be made unless approved by the Board of Estimate and Apportionment of The City of New York; and the Comptroller of The City of New York is hereby authorized and directed to issue and sell revenue bonds to such amount as may be necessary to provide for the payment of such salary, compensations and expenses, and for such purchases, during the year 1911, in addition to the sum now appropriated for such purposes during that year."

The files constitute a valuable record of the history of the City, of the nation and of the world for more than seventy years, and their value for reference must become greater from year to year.

It is my opinion that these files would be out of place in the office of the County Clerk, and that their proper place is in the New York Public Library. However, it appears that this special act does not provide for the purchase of these files by any other person than the Commissioner of Records, and therefore the act cannot be made the basis for provision to have the files purchased for the Public Library.

I submit without recommendation a resolution, which, if adopted, will approve of the purchase of these files by the Commissioner of Records for the County Clerk's office. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 292, Laws of 1911, the Board of Estimate and Apportionment hereby approves of the purchase by the Commissioner of Records of the County of New York, at a price not to exceed ten thousand dollars ($10,000.), of newspaper files, as follows: "Weekly Herald," 1837 to 1855; "New York Tribune," 1846 to date; "New York Herald," 1847 to date; "New York Times," 1850 to date; "New York World," 1863 to date; "New York Sun," 1870 to date.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

On motion of the Comptroller, the Board adjourned to meet Friday, July 21, 1911, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Special Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Friday, July 21, 1911, at 10.30 a. m.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of an adjournment.

Present—Hon John Purroy Mitchel, Acting Mayor; William A. Prendergast, Comptroller; Francis P. Bent, Acting President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Alfred E. Steers, President, Borough of Brooklyn; Cyrus C. Miller, President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Acting Mayor, Hon. John Purroy Mitchel, presided.

FRANCHISE MATTERS.

Rapid Transit Railways—Extensions to the Existing System, also Third Tracking and Constructing Additions to the Second, Third and Ninth Avenue Elevated Railroads and the Completion and Putting in Operation of the Steinway Tunnel.

In the matter of the communication from the Public Service Commission for the First District relative to the construction, maintenance and operation of additional rapid transit railways and requesting a statement of the position of this Board on the subject.

At the meeting of July 20, 1911, by motion duly adopted, this day was fixed for consideration of a resolution offered by the President of the Borough of Manhattan relative to additional rapid transit railways which failed of adoption on that date, not having received twelve votes on its original presentation, as required by section 226 of the Greater New York Charter.

The President of the Borough of Manhattan again offered the resolution, which is as follows:

Whereas, The Special Committee of the Board of Estimate and Apportionment, appointed to consider pending transit proposals, and the Public Service Commission for the First District, made a joint report to this Board, bearing date of June 5, 1911, and transmitted under date of June 13, 1911, with relation to the construction, equipment and operation of additional lines of rapid transit railway within The City of New York; and

Whereas, This Board, at a meeting held on June 21, 1911, concurred unanimously in the findings and recommendations of said joint report, with certain modifications set forth in the resolutions adopted upon such date applying to the respective proposals of the Interborough Rapid Transit Company and the Brooklyn Rapid Transit Company; and

Whereas, The recommendations of the Special Committee of the Board and the Public Service Commission, which were approved by the Board, provided that if the Interborough Company failed to accept the terms and conditions prescribed for the operation of the new lines of rapid transit railway allotted to it, certain said lines be added to the system to be operated by the Brooklyn Company upon the general terms prescribed for the operation of the lines originally allotted to the said Company; and

Whereas, The Brooklyn Company, in a communication to the conferees dated July, 1911, expressed its willingness to operate the additional lines upon the terms proposed, if so requested by the City; and

Whereas, The Interborough Company has failed to accept the terms originally proposed to it, and the Board has rejected the proposition of the conferees to amend the said terms upon a basis that the Interborough Company has stated would be acceptable to it; therefore be it

Resolved, That, in pursuance of the joint recommendations of the Special Committee of the Board of Estimate and Apportionment and the Public Service Commission for the First District, as subsequently amended, the Board will approve contracts to be prepared by the Public Service Commission under the general provisions of the Rapid Transit Act for the construction, equipment and operation of rapid transit railways along the lines now proposed for operation by the Brooklyn Rapid Transit Company, either through the instrumentality of such new railroad company as may be organized for the purpose, or through its present agencies, and for the extension and third tracking of the existing elevated lines of the Brooklyn Rapid Transit Company; and be it further

Resolved, That the Public Service Commission be and it hereby is respectfully requested to submit to this Board at the earliest date practicable the forms of the contracts to be entered into for the equipment, operation and maintenance of the lines of rapid transit railway proposed for operation as aforesaid; and be it further

Resolved, That the Public Service Commission be and it hereby is respectfully requested to submit at the earliest date or dates practicable, for the further approval of the Board, the contract or contracts to be entered into for such portions of the said lines as are to be constructed at the expense of the City, and to acquaint the Board, so far as practicable, in advance of such submission with the incidental plans, specifications and estimates for such construction, in order that the Board may properly allow the appropriation of City funds to be expended in accordance therewith; and be it further

Resolved, That the Special Committee of the Board, consisting of the President of the Borough of Manhattan, the President of the Borough of The Bronx and the President of the Borough of Richmond be hereby continued for the purpose of conferring and co-operating with the Public Service Commission in the carrying out of these recommendations, and in the determination of such questions of detail as were left undetermined in the joint report of the conferees, including the resolutions of this date.

Which was adopted by the following vote:

Affirmative—The Acting Mayor, the Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn and Richmond—14.

Negative—The Presidents of the Boroughs of The Bronx and Queens—2.

FINANCIAL MATTERS.

The following matters, not upon the Calendar for this day, were considered by unanimous consent:

The Comptroller presented five communications from the Public Service Commission for the First District, submitting forms of contract for the construction of the Lexington Avenue Subway, Borough of Manhattan, showing bidders to whom contracts have been awarded, requesting the consent thereto of the Board of Estimate and Apportionment, pursuant to section 37 of the Rapid Transit Act, as amended, and further requesting the Board to prescribe a limit to the amount of bonds available for said purposes, and to authorize the issue of corporate stock, as follows:

Contract Awarded.	Corporate Stock Requested.
Section No. 6, from East 26th street, under Lexington avenue to East 40th street; contractor, the Bradley Contracting Company; amount	$3,634,213 50
Section No. 7, from East 40th street, under Lexington avenue, to East 53d street; contractor, Charles H. Peckworth; amount............	2,750,463 40
Section No. 8, from East 53d street, under Lexington avenue, to East 67th street; contractor, the Bradley Contracting Company; amount.	3,369,484 20
Section No. 10, from East 79th street, under Lexington avenue, to East 93d street; contractor, the Bradley Contracting Company; amount.	3,253,072 80
Section No. 11, from East 93d street, under Lexington avenue, to East 106th street; contractor, the Bradley Contracting Company; amount.	3,132,195 05
Aggregate amount	$16,139,428 95

—together with a report recommending the approval of said request.

(On July 6, 1911, the above communications were referred to the Comptroller.)

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, July 5, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you, for your consent and for the appropriation of the necessary moneys, as provided by the Rapid Transit Act, contracts for the construction at municipal expense of five sections of the Lexington Avenue Subway, viz.: Sections Nos. 6, 7, 8, 10 and 11.

The important developments in the transit situation which have occurred since the Triborough contracts were advertised for bids have necessitated changes in the Triborough plans. Whatever changes may finally be determined upon, the sections referred to will be constructed practically as planned. It is therefore considered desirable that the contracts for these sections be awarded, so that construction work can be got under way as quickly as possible.

Important changes in other sections may be necessary to conform to the new layout and contracts for their construction can be advertised for bids from time to time as the changed plans and contracts reach completion.

Since the receipt of bids the Commission has considered with extreme care the question of the cross-section of the new subways. The Triborough plans as advertised for bids called for a normal cross-section with a clear width inside of 57 feet, and with a height from the base of the rail of 15 feet. The Commission believes that, considering the subject broadly and considering, also, the capacity which will be required of these railroads in the future, that a type of subway as called for by these plans would best serve the traveling public, but when the matter was first considered it did not have before it the exact cost data which was furnished by the contractors' bids. After the receipt of such bids, and in the light of the debt margin of the City, the Commission thoroughly re-studied the entire question, with the result that it determined that the size of subway which will give the maximum of efficiency with the minimum of expenditure is one that will have a normal four-track cross-section with a clear inside width of 55 feet 6 inches and a height of 13 feet 2 inches from the base of the rail.

The Triborough forms of contracts contain provisions giving the Commission the right to make changes in plans, and under them the Commission has the right to order these changes, which are within the contract cost. Respectfully,

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. WILLCOX, Chairman.

Attest: TRAVIS H. WHITNEY, Secretary.

SECTION NO. 6, FROM EAST 26TH STREET, UNDER LEXINGTON AVENUE, TO EAST 40TH STREET; CONTRACTOR, THE BRADLEY CONTRACTING COMPANY; AMOUNT, $3,634,213.50.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, July 5, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New York and Bradley Contracting Company for the construction at the public expense of Section No. 6 of Route No. 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue, from East 26th street to East 40th street, in the Borough of Manhattan.

The Public Service Commission for the First District further requests your honorable Board to consent to the said contract herewith transmitted, and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of three million six hundred and thirty-four thousand two hundred and thirteen dollars and fifty cents ($3,634,213.50), and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessaary means for construction at the public expense of the said portion of such railroad.

And the Public Service Commission for the First District does hereby, pursuant to section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of three million six hundred and thirty-four thousand two hundred and thirteen dollars and fifty cents ($3,634,213.50).

In witness whereof the Public Service Commission for the First District has

caused its official seal to be hereto affixed and attested by its Secretary and these presents to be signed by its Chairman this 5th day of July, 1911.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. Willcox, Chairman.

Attest: Travis H. Whitney, Secretary.

After consideration of the bids on Section No. 6 of Route No. 5, the following resolution was duly moved and seconded:

Resolved, That this Commission hereby accepts the proposal of Bradley Contracting Company, dated October 27, 1910, for the construction of Section No. 6 of Route No. 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue, from East 26th street to East 40th street, in the Borough of Manhattan, the aggregate of the unit prices in the proposal amounting to three million six hundred and thirty-four thousand two hundred and thirteen dollars and fifty cents ($3,634,213.50).

Resolved, That the Chairman and Secretary be and they hereby are authorized on behalf of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment and upon compliance by the said Bradley Contracting Company with the requirements of the Invitation to Bidders attached to the said proposal.

Resolved, That the Chairman and the Secretary be and they hereby are authorized and directed to request the Board of Estimate and Apportionment to consent to the said contract and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of three million six hundred and thirty-four thousand two hundred and thirteen dollars and fifty cents ($3,634,213.50), and also to request the said Board of Estimate and Apportionment to direct the Comptroller of The City of New York to issue the bonds of said City at sucha rate of interest as the Board of Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad; and also to make request for the authorization of bonds for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of three million six hundred and thirty-four thousand two hundred and thirteen dollars and fifty cents ($3,634,213.50).

Resolved, That the Secretary give notice to the said Bradley Contracting Company that its proposal has been accepted and the contract awarded to it by this Commission, subject to its being consented to by the Board of Estimate and Apportionment, as required by law.

Resolved, That it be referred to counsel to the Commission to inquire into the sufficiency of the sureties proposed to be given by the said Bradley Contracting Company, and in case the sureties named in the proposal of the said Bradley Contracting Company, or any of them, are not approved by the Commission, then to inquire into the sufficiency of any other or substitute sureties and in behalf of the Commission to do any such act as may be necessary and incidental to the furnishing of a proper bond.

Ayes—Commissioners Willcox, McCarroll, Maltbie, Eustis, Cram.

Nays—None.

Carried.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on July 5, 1911, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof I have hereunto subscribed my hand and affixed the seal of the Commission this 5th day of July, 1911.

[seal.] TRAVIS H. WHITNEY, Secretary.

Invitation to Contractors.

Parts of Lexington Avenue Route.

The City of New York, acting by the Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct portions of a proposed rapid transit railroad in the Boroughs of Manhattan and The Bronx in The City of New York. Proposals may be submitted separately for any one or more of the separate sections of which such railroad consists as hereinafter stated.

The points within the City between which the said several parts are to run and the route or routes to be followed are briefly as follows:

Lexington Avenue Route.

(Route No. 5.)

Section 1 begins under Battery Park and extends thence under Battery place, Greenwich street, Trinity place and Church street to a point about 80 feet north of the centre line of Dey street; with a station in Battery Park, a station at Rector street and a station at Cortlandt and Dey streets.

Section 2 begins at the end of Section 1 and extends thence under Church street, private property, Vesey street, private property, and Broadway to a point under Broadway about 110 feet north of the centre line of Walker street; with a station at Murray and Warren streets.

Section 2-A begins at the end of Section 2 and extends thence under Broadway to a point about on the northerly building line of Howard street. This section includes the Canal street station and also the portion of the Canal street subway lying thereunder.

Section 3 begins at the end of Section 2-A and extends thence under Broadway to a point about midway between Houston and Bleecker streets; with a station at Prince street.

Section 4 begins at the end of Section 3 and extends thence under Broadway, private property and the several cross streets to a point under private property at the southerly line of East 14th street and Irving place; with a station at Astor place and East 8th street.

Section 5 begins at the end of Section 4 and extends thence under Irving place, Gramercy Park and Lexington avenue to a point about 140 feet north of the centre line of East 26th street; with a station at East 14th and East 15th streets and a station at East 23d street.

Section 6 begins at the end of Section 5 and extends thence under Lexington avenue to about the centre line of East 40th street; with a station at East 27th and East 28th streets and a station at East 34th street.

Section 7 begins at the end of Section 6 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 53d street; with a station at East 42d and 43d streets and a station at East 51st street.

Section 8 begins at the end of Section 7 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 67th street; with a station at East 58th and East 59th streets.

Section 9 begins at the end of Section 8 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 79th street; with a station at East 68th and East 69th streets and a station at East 77th street.

Section 10 begins at the end of Section 9 and extends thence under Lexington avenue to a point about 50 feet south of the centre line of East 93d street; with a station at East 86th street.

Section 11 begins at the end of Section 10 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 106th street; with a station at East 96th street and a station at East 102d and East 103d streets.

Section 12 begins at the end of Section 11 and extends thence under Lexington avenue to a point about 115 feet south of the centre line of East 118th street; with a station at East 110th and East 111th streets and a station at East 116th street.

Section 13 begins at the end of Section 12 and extends thence under Lexington avenue to a point about 120 feet south of the centre line of East 129th street; with a station at East 125th street.

Section 14 begins at the end of Section 13 and extends thence under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx, thence under private property and Park avenue to East 135th street. Here the line divides into two branches. The west branch begins at about the centre line of East 135th street and extends thence under private property to a point in private property a distance of about 655 feet from the centre line of East 135th street and about 50 feet west of the centre line of Mott avenue. The east branch extends under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park avenue.

Section 15. This section consists of two branches. The west branch begins at the end of the west branch of Section 14 and extends thence under East 138th street, private property and Mott avenue, Franz Sigel Park, private property and the several cross streets to a point in private property on the easterly side of River avenue about 120 feet south of the south line of East 157th street; with a station at East 138th street and East 149th street. (The portion of this section north of East 151st street is part of the River Avenue Route adopted by the Commission

on the 16th day of June, 1908.) The east branch begins at the end of the east branch of Section 14 and extends thence under Park avenue, private property, Canal Street West and East 138th street to a point in East 138th street about 150 feet easterly of the centre line of Alexander avenue, with a station between 3d and Alexander avenues.

The general plan of construction calls for a subsurface railroad having two tracks between Battery Park and Chambers street in Manhattan, and four tracks from Chambers street, in Manhattan, to 135th street and Park avenue in The Bronx, with the branches in The Bronx having in the main three tracks each. Turnouts, cross-overs, connections, sidings, loops, etc., will be constructed, all of which are more particularly indicated on the contract drawings.

For Section 14 two plans, designated Type H and Type K, respectively, have been prepared. The bidders for such section may submit a proposal for either or both of such types. After a comparison of the bids the Commission will determine which of such plans shall be adopted.

Bidders for the several sections will not be required to do the station finish work, nor to provide or lay tracks, ties or ballast.

The work of construction under the contract shall include the construction of all necessary sewers and connections, along the route of the railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning where necessary, of all buildings, monuments, surface, subsurface and elevated railroads and other structures, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and the temporary paving and maintenance of roadways.

The method of construction will be partly by trench excavation (under cover, unless otherwise specified in the form of contract or permitted by the Commission), and partly by tunnel, as set forth in the forms of contract.

Bidders must examine the form of contract, specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated, in the printed form of contract and in the contract drawings therein referred to. Printed copies of the forms of contract, bond and contractor's proposal, may be had on application at the office of the Commission, 154 Nassau street, Borough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders by payment of five dollars ($5) for the contract drawings for each section. The printed form of contract and the contract drawings are to be deemed a part of this invitation.

The Commission is informed by the Department of Docks and Ferries that docks and bulkheads along the East River may be available for dumping purposes. Information in regard thereto may be obtained by any intending bidder upon inquiry at the office of the Commission.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The Contractor for any section or sections will be required to complete the work as soon as practicable and within the time hereinafter prescribed for such completion.

Sealed bids or proposals will be received at the office of the Commission at 154 Nassau street, Borough of Manhattan, City of New York, until the 27th day of October, 1910, at twelve (12) o'clock noon, at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

A statement, based upon the estimate of the Engineer, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required for each section, is to be found in the schedules forming a part of the form of Contractor's Proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed: "*Proposal for Constructing Rapid Transit Railroad—Route* 5, *Section* —*," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a separate certified check for each section bid upon, drawn upon a national or state bank or trust company having its principal office in The City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for the amount herein specified for the section for which a proposal is made. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract or contracts will be made by the Commission as soon as practicable after the opening of the proposals.

Bidders whose proposals are otherwise satisfactory, in case the sureties named by them are not approved by the Commission, may substitute in their proposals the names of other sureties approved by the Commission, but such substitution must be made within five days after notice of disapproval, unless this period is extended by the Commission.

A bidder whose proposal shall be accepted shall, in person or by duly authorized representative, attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond for the amount hereinafter stated. The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, ten (10) per cent. of the amount certified from time to time to be due to the Contractor will be retained until the work is fully completed and accepted.

Schedule Indicating Time Allowed for Completion, the Amount of Bond and the Amount of Certified Check for Each of the Several Sections.

Route 5.	Time for Completion, Months.	Amount of Bond.	Amount of Certified Check.
Section 1	42	$500,000 00	$15,000 00
Section 2	42	600,000 00	15,000 00
Section 2A	42	250,000 00	10,000 00
Section 3	42	300,000 00	10,000 00
Section 4	36	300,000 00	10,000 00
Section 5	42	300,000 00	10,000 00
Section 6	42	350,000 00	10,000 00
Section 7	42	350,000 00	10,000 00
Section 8	42	300,000 00	10,000 00
Section 9	42	300,000 00	10,000 00
Section 10	42	300,000 00	10,000 00
Section 11	42	300,000 00	10,000 00
Section 12	42	400,000 00	12,500 00
Section 13	42	400,000 00	12,500 00
Section 14	42	500,000 00	15,000 00
Section 15	42	500,000 00	15,000 00

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case, the Commission will give notice thereof to such defaulting bidder, and the Commission may thereupon proceed to make another contract with such, if any, of the original bidders, as, in the opinion of the Commission, it will be to the best interests of the City to contract with, or may by new advertisement invite further

proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other Contractor over the amount of the bid of such defaulting bidder.

---

*To be filled in with the Section number for which the proposal is made.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, then this Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage by it sustained by reason of such failure, and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

The right to reject any and all bids is reserved.

New York, September 1, 1910.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by William R. Willcox, Chairman; Travis H. Whitney, Secretary.

Rapid Transit Railroad.

Contract—Route No. 5. Section No. 6.

Agreement, made this............day of.................., 1910, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and Bradley Contracting Co., hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual covenants and agreements hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled, "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, the parties do hereby, the City for itself and its successors and the Contractor for itself, its successors and assigns, agree each with the other as follows:

I.—General Provisions and Definitions.

Outline of Contract.

Article 1. The Contractor agrees to construct the part hereinafter described of a Rapid Transit Railroad, with its appurtenances. The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

Article 2. The Railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on May 12, 1905, and which, as modified, is known as the Lexington Avenue Route—or Route No. 5. The part to be constructed under this contract consists of Section No. 6.

Section No. 6—26th Street to 40th Street.

Beginning at a point about 140 feet north of the centre line of 26th street; thence under Lexington avenue to the centre line of 40th street; with stations at East 27th and 28th streets, and East 34th street.

The precise location of the tracks, and the dimensions and other characteristics of the Railroad are more fully stated in the specifications forming a part of this contract, and in the detailed drawings and plans hereinafter mentioned.

Statutes Incorporated Herein.

Article 3. This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Article 4. Titles, headings, running headlines and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

Article 5. The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

(1) The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York, under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

(2) The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment, maintenance and operation of Rapid Transit Railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

(3) The word "Contractor" to mean the party of the second part to this contract, and its successors, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they;" the word "him" shall include "her," "it" and "them;" and the word "his" shall include "its," "her" and "their."

"Comptroller."

(4) The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

(5) The word "Engineer" to mean the Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

(6) The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, chapter 429 of the Laws of 1907, chapter 498 of the Laws of 1909, and chapters 205, 504, 505 and 506 of the Laws of 1910, or as heretofore otherwise amended.

"Railroad."

(7) The word "Railroad" to mean the part which the Contractor agrees by this contract to build, together with the station or stations to be built in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(8) The words "the Works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

(9) The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

(10) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice." "Direction."

(11) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor. Address May be Changed. Service Upon Contractor Personally.

Article 6. The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

Article 7. If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Subcontractors.

Article 8. The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of the proposed subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish, the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved of by the Commission.

II.—Work to be Done, Price, Etc.

Work to be Done.

Article 9. The Contractor shall do all the work and furnish all the materials, plant, tools and appliances necessary or proper for performing and completing the work of constructing the railroad in the manner and within the time hereinafter specified. He shall complete the railroad and do all the work and furnish all labor and materials in and about the construction of the railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, the said contract drawings may from time to time be altered or modified as hereinafter provided.

Construction Includes Sewer and Other Incidentals.

Article 10. In order to construct the railroad it will be necessary to take up and relay the sidewalk pavement or other surface material, and to lay and maintain a temporary pavement in the roadway, to protect, support and maintain during construction all buildings and other structures, including their foundations, and all elevated and surface and subsurface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins

and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces (except as herein provided in respect of temporary pavements for roadways), adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface and subsurface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform for the prices herein agreed upon.

Prices.

Article 11. The City will pay and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the following prices, to wit:

Schedule of Unit Prices.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of three dollars and fifty cents ($3.50) per cubic yard.

Item 2. For earth excavation below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of seven dollars and fifty cents ($7.50) per cubic yard.

Item 2-A. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of five dollars ($5.00) per cubic yard.

Item 3. For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., the sum of five dollars ($5) per cubic yard.

Item 3-A. For rock excavation for sewers and pipes, including the disposal of it, etc., the sum of six dollars ($6) per cubic yard.

Item 4. For underpinning buildings, including all incidental work and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of one hundred and fifty dollars ($150) per linear front foot of building underpinned.

(b) For buildings from seven (7) to twelve (12) stories in height the sum of two hundred dollars ($200) per linear front foot of building underpinned.

Item 5. For tunnel excavation (except tunneling for sewers), including the disposal of material, timbering, etc., the sum of nine dollars ($9) per cubic yard.

Item 5-A. For tunnel excavation for sewers, including the disposal of material, timbering, etc., the sum of twenty dollars ($20) per cubic yard.

Item 6. For concrete masonry, in place, the sum of ten dollars ($10) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eight dollars ($8) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of eight dollars ($8) per cubic yard.

Item 9. For brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 10. For hollow terra cotta brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 11. For grout of Portland cement, the sum of four dollars and fifty cents ($4.50) per barrel of Portland cement used.

Item 13. For timber foundations, placed and fastened, the sum of seventy-five dollars ($75) per thousand feet, board measure.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of two dollars and fifty cents ($2.50) per cubic yard.

Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of seventy-five cents ($0.75) per square yard.

(b) For two-ply, the sum of one dollar ($1) per square yard.

(c) For three-ply, the sum of one dollar and fifty cents ($1.50) per square yard.

(d) For four-ply, the sum of one dollar and seventy-five cents ($1.75) per square yard.

(e) For five-ply, the sum of two dollars ($2) per square yard.

(f) For six-ply, the sum of two dollars and fifty cents ($2.50) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of thirty dollars ($30) per cubic yard.

Item 17. For vitrified or cast iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of one dollar and seventy-five cents ($1.75) per linear foot.

(b) For ten (10) inch vitrified pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(c) For eight (8) inch vitrified pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

(d) For six (6) inch vitrified pipe, the sum of one dollar ($1) per linear foot.

(e) For four (4) inch vitrified pipe, the sum of seventy-five cents ($0.75) per linear foot.

(g) For six (6) inch cast iron pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(h) For four (4) inch cast iron pipe, the sum of one dollar ($1) per linear foot.

Item 18. For tunnel ducts in place as required by section 305 of the specifications, the sum of fifteen cents ($0.15) per duct foot.

Item 19—For riveted steel, painted and erected, the sum of ninety dollars ($90) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of eighty dollars ($80) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of sixty-five dollars ($65) per ton of two thousand pounds.

Item 24. For cast iron columns, erected and painted, the sum of seventy-five dollars ($75) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of seventy-five dollars ($75) per ton of two thousand pounds.

Item 26. For wire mesh, in place, the sum of ten cents ($0.10) per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand-rail, in place, including expansion bolts, etc., the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 28. For steel gratings, for ventilation, in place, including frames, etc., the sum of two dollars and fifty cents ($2.50) per square foot.

Item 29. For vault light, in place, the sum of two dollars ($2) per square foot.

Item 30. For street surface restored:

(a) For street surface, except roadways, the sum of three dollars ($3) per square yard.

(b) For temporary restoration and maintenance of roadways, the sum of three dollars ($3) per square yard.

Item 32. For wrought-iron or fibre electric conduits, in place, in stations as follows:

(a) For three-fourths (¾) inch wrought-iron conduits, the sum of thirty cents ($0.30) per linear foot.

(b) For one and one-half (1½) inch wrought-iron conduits the sum of forty-five cents ($0.45) per linear foot.

(c) For two (2) inch wrought-iron conduits the sum of sixty cents ($0.60) per linear foot.

(d) For two (2) inch fibre conduit the sum of fifteen cents ($0.15) per linear foot.

Item 33. For cast-iron outlet boxes, in place, in stations, the sum of one dollar ($1) each.

Item 34. For six (6) inch cast-iron pipe and fittings including specials "extra heavy" in place, in stations, the sum of two dollars and fifty cents ($2.50) per linear foot.

SEWERS—ITEMS 38, 39, 42, 45, 57, 58, 60, 64, 66.

Vitrified and Cast-Iron Pipe.

Items 38, 39, 42.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of six dollars ($6) per linear foot.

Item 39. For eighteen (18) inch vitrified pipe sewer, the sum of seven dollars ($7) per linear foot.

Item 42. For cast-iron sewer pipe (straight pipe) in place in the work, the sum of fifty dollars ($50) per ton of two thousand pounds.

Egg-Shaped Brick or Concrete Sewers.

Item 45.

Item 45. For 3 feet 6 inch by 2 feet 4 inch, the sum of fifteen dollars ($15) per linear foot.

Circular Sewers—Brick or Concrete or Reinforced Concrete.

Items 57, 58, 60, 64, 66.

Item 57. For 5-foot 6-inch, the sum of twenty-two dollars ($22) per linear foot.

Item 58. For 5-foot 6-inch, in tunnel, the sum of forty dollars ($40) per linear foot.

Item 60. For 6-foot, the sum of twenty-five dollars ($25) per linear foot.

Item 64. For 8-foot, the sum of thirty-five dollars ($35) per linear foot.

Item 66. For 9-foot 6-inch, the sum of forty dollars ($40) per linear foot.

Sewers of Special Forms.

Items 71 *to* 72.

Item 71. For triple section, the sum of one hundred dollars ($100) per linear foot.

Item 72. For 4-foot wooden barrel, the sum of seventy-five dollars ($75) per linear foot.

Surface and Subsurface Structures.

Item 75.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of eighteen dollars ($18) per linear foot of single track.

(b) For horse railroads, the sum of five dollars ($5) per linear foot of single track.

PIPES IN STREETS—ITEMS 78 TO 122.

For Work and Material as Called for by Section 71 *of the Specifications.*

Water and Gas Pipes.

Items 78 *to* 96.

Water Pipes.

Items 78 *and* 79.

For water pipes in place, as follows:

Item 78. For 4-inch water pipe, the sum of one dollars and twenty-five cents ($1.25) per linear foot.

Item 79. For 6-inch water pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

GAS PIPES.

Items 90 *to* 96.

For gas pipes in place, as follows:

Item 90. For 4-inch gas pipe, the sum of one dollar ($1) per linear foot.

Item 91. For 6-inch gas pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 92. For 8-inch gas pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

Item 94. For 12-inch gas pipe, the sum of two dollars ($2) per linear foot.

Item 95. For 16-inch gas pipe, the sum of two dollars and twenty-five cents ($2.25) per linear foot.

Item 96. For 20-inch gas pipe, the sum of two dollars and fifty cents ($2.50) per linear foot.

New Cast-Iron Hub and Spigot Water and Gas Pipe.

Items 100 *and* 101.

Item 100. For new cast-iron hub and spigot straight pipe delivered on the work, the sum of forty dollars ($40) per ton of 2,000 pounds.

Item 101. For new cast-iron hub and spigot pipe, special castings, delivered on the work the sum of seventy dollars ($70) per ton of two thousand pounds.

AIR PIPES.

Item 122.

For air pipe in place, as follows:

Item 122. For 8-inch air pipe, the sum of two dollars ($2) per linear foot.

ELECTRIC DUCTS AND CONDUITS IN STREETS.

(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)

Item 127. For electric ducts and conduits in place, as provided in section 71-a of the Specifications, the sum of twenty-five cents ($0.25) per duct foot.

Work Not Susceptible of Classification.

Article 12. In case any work or materials shall be required to be done or furnished in or about the works—whether specified herein or indicated on the plans or not—which are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten per centum (10%) of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above, but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedule, except as otherwise herein expressly provided.

In case any work or material shall be required to be done or furnished under the provisions of this article, for cost plus ten per centum (10%), the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memorandum showing the work and materials actually paid for and the actual prices therefor.

Quantities Approximate Only.

Article 13. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the works under this contract; and neither the City, nor the Commission, nor any member of the Commission, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the works, be found even approximately correct in the construction of the works; and the Contractor shall make no claim for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article 14. The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings.

Plans May be Modified.

Article 15. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interest, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages

or extra service other than is provided for items of the different classes of construction shown in the schedule, or where not susceptible of classification, then as otherwise provided herein.

Contractor Bound to Complete in Best Manner.

Article 16. The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices herein agreed upon.

Best Materials, Machinery, Tools, etc., to be Used.

Article 17. The Contractor shall furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, etc.

Article 18. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to, damages or an extension of time for completion of the works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

Article 19. No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any part of the works.

Inspection.

Article 20. The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

Article 21. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and all employees of the Commission bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Engineer to be Furnished Facilities.

Article 22. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article 23. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, nothwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work, or any part thereof, shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials.

Engineer's Determination to be Final and Conclusive Upon Contractor.

Article 24. To prevent disputes and litigations, the Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain.

Article 25. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the railroad. The Contractor shall afford to such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any differences or conflicts which may arise between the Contractor and other contractors of the Commission in regard to their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article 26. Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

III.—SPECIFICATIONS.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class. Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section 1. The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract. are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either in advance to show all details, or precisely to forecast all exigencies The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The Railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of New York, in the best manner, according to the best rules and usages of railroad construction, and in the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

To Construct in Accordance With Specifications.

Section 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class ofwork where applicable or as provided in Article XII. of the contract.

Maps and Drawings.

Section 3. The contract plans referred to in the contract and specifications bear date June 15, 1910, are each countersigned by the Engineer, are stamped with the seal of the Commission, bear the general title:

Route No. 5.

Contract Drawing No.

and are designated or numbered as follows:

For Section 6. Route No. 5.

Drawings as follows:

General Notes; Maps and Profile; Nos. A8; B13, B14, B15, B101, B102; C1 to C18 inclusive, C401, C1001, C1002, C1003, C1010, C1011, C1013, C1014, C1015, C1032.

Plans and Contract Drawings.

Section 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Where, however, changes are deemed necessary they may be ordered under Article XV. of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract drawings, but designated as supplementary drawings. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface and subsurface structures.

Supplementary Drawings May be Examined.

Section 6. These supplementary drawings, for each section of the work, can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue prints) of these drawings for one or more of the sections, for such aid, if any, as may be derived from them, on the payment of the cost of printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section 7. If, upon opening the streets, by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by the samples of the test borings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if any way such supplementary drawings be found erroneous, the Contractor shall take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications Not Exclusive.

Section 8. It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive.

Section 9. These specifications are grouped in subdivisions as follows:

1. Description of the Work. 2. General Clauses. 3. Manner of Prosecution and Maintenance of Traffic. 4. Street Railroad Tracks, Mains and other Surface or Subsurface Structures. 5. Excavation. 6. Tunneling. 7. Backfilling. 8. Piling and Timbering. 9. Cement. 10. Mortar. 11. Masonry. 12. Concrete. 13. Brick Masonry. 14. Stone Masonry. 15. Waterproofing. 16. Steel and Iron. 17. Painting. 18. Ducts and Conduits. 19. Drains and Pumps. 20. Sewers. 21. Requirements for Pipes. 22. Street Surface and Park Surface Restored. 23. Vault Lights, Gratings and Hand-rails.

1—Brief Description of the Work.

General Nature.

Section 10. The Rapid Transit Railroad which is hereinbefore described is to be an underground railroad or subway, the general details of construction and the location of the various tracks, junctions, grades, etc., being indicated more particularly on the contract drawings.

Stations to be Constructed.

Section 11. Stations are to be constructed at such places as are indicated on the plans, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidently with the completion of the Railroad.

Surface and Subsurface Structures.

Section 12. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Chambers and Gratings.

Section 13. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of necessary ventilating devices shall be built at the sides of the Railroad and in connection therewith. These chambers shall be generally of the form and dimensions as shown on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from the chambers, suitable air-ways, ducts or flues shall be constructed.

The chambers will be built at the places and as indicated on the plans.

Section 14. Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad.

Section 15. The chambers will be provided with suitable doors or openings, and with ladders reaching to the street for use as exits in case of emergency.

2—General Clauses.

Prevention of Water Percolation.

Section 16. It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section 17. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section 18. All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyances to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section 19. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system,

which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall fail so to prosecute his work that, in the judgment of the Engineer, it shall not be reasonablly probable that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section 20. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section 21. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the material needed for construction has been acquired and is available. Such permits are to be in such form and to cover such portions of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Section 22. Before any opening is made in the surface of a street. a copy of the permit issued by the Commission shall have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Notice Regarding Commencement of Work.

Section 23. Before commencing work on any part of the route, whether on the Railroad or on the sewers lying off the line of the Railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured.

Shafts and Dumping Platforms.

Section 24. Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., shall be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Ordinances and Regulation.

Section 25. In all operations connected with the Works, all ordinances of the City, and of the Board of Health. so far as they may be valid and operative with respect thereto, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, shall be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and Harbor of materials used in, or in connection with, the work.

Requirements of Borough President, etc., to be Observed.

Section 26. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Building and Water Permits; Shut-offs for Water Pipes, etc.

Section 27. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shalll bear the cost of the service of inspectors required by any municipal department or other public authority in or about the execution of the work other than the inspectors or the employees of the Commission. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same and

of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in section 70 of the specifications.

Storage on Cross Streets.

Section 29. No material of any nature shall be stored along the streets occupied by the Railroad in Manhattan or on 138th street, in The Bronx. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of such structural material as may be absolutely necessary to avoid delay in construction may be stored; such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

Material Stored.

Section 30. Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section 31. In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Access to Fire Hydrants.

Section 32. Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Work to be Cleared.

Section 33. At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Assistance to be Rendered to Owners of Buildings.

Section 34. Where access to any adjacent property is temporary cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost. tender every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Waste Material.

Section 35. Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section 36. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense, wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section 37. Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Advertisements Forbidden.

Section 38. The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

Barricades.

Section 39. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Detailed Drawings.

Section 40. The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

Section 41. The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings. as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work called for by said working or shop drawings shall be done until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

Lines and Grades.

Section 42. During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the Railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work. The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Notice, How Given.

Section 43. When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Imperfect Work.

Section 44. Any imperfect construction which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to be Replaced.

Section 45. All work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work at the Contractor's expense.

Condemned Materials to be Removed.

Section 46. If any material brought on the ground for use in the work or selected for the same shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials as may be directed by the Engineer.

Competent Men.

Section 47. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

3—MANNER OF PROSECUTION AND MAINTENANCE OF TRAFFIC.

Access to Buildings, etc.

Section 48. No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and, where streets are open suitable bridges shall be built and maintained, at the Contractor's expense, to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Wharves and Docks.

Section 50. For that portion of the route adjoining wharves and docks the work must be so prosecuted as to permit free access to neighboring wharves and docks.

Contiguous Contract Sections.

Section 50-a. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of ten feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Other Portions of the Route.

Section 51. Generally the Contractor will be permitted to conduct its work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section 52. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both in longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section 53. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work when the excavation is in trench the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption.

Street Intersections.

Section 61. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted must be kept at all times open to traffic for at least one-half the width of the cross roadway, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Close Observance of Above Requirements.

Section 62. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

Openings for Ventilation.

Section 63. Wherever the excavations are decked, where gas pipes are maintained in service or where gases are liable to accumulate, suitable openings shall be provided for proper ventilation, or the Contractor may maintain services by temporary mains above the street decking.

Temporary Pipes, etc.

Section 64. Temporary pipes, if laid above the street or sidewalk surfaces, shall be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

In General.

Section 65. In general, work will, as provided herein, be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of its contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

4—STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUBSURFACE STRUCTURES.

Notice to be Given.

Section 66. Notice is to be given by the Contractor to all companies and the proper City officials, owning or having charge of surface or subsurface structures along any part of the work. of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

Section 67. In the rearrangement of subsurface structures requiring removal and relaying or reconstruction due to interference with the railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if, in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Reconstruction or Relaying, etc.

Section 68. Whenever it becomes necessary to cut, move, change, or reconstruct any surface or subsurface structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures.

Reasonable Dispatch.

Section 69. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, etc.

Section 70. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface and subsurface structures encountered during the prosecution of his work. All surface and subsurface structures and surfaces of whatever character along the line of the work shall be protected from injury, but should any injury occur the Contractor shall fully restore such surface or subsurface structures or surfaces to as good a condition as existed before the injury was done. All the above, including also all changes of surface or subsurface structures made by the Contractor for his own convenience in executing his work, shall be done at the Contractor's own expense and included in the prices stipulated in the schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section 71. Changes of water, gas, steam or other pipes made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such pipes and their appurtenances in other than the original position, will be paid for at the prices stipulated in Schedule Items 77 to 99, Items 102 to 106, Items 109 to 114, Items 121 to 122, and Item 125. These prices are per linear foot of pipe laid including all work, labor and material incidental to such laying, excepting that:

(1) If new pipes have to be provided and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100 and 101, Items 107 and 108, Items 115 to 120, Items 123 and 124, and Item 126, which prices are to cover the cost of the new pipes delivered on the work.

(2) If the pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restora-

tion of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), and for restoration of street surface, Item 30-A and B, but only to the net lines ordered by the Engineer for excavation for such pipe work.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section 71-a. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75-A), made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the price stipulated in Schedule Item 127. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place; of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work and material incidental to and necessary for the completed duct lines.

Surface and Elevated Railroads.

Section 72. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface, subsurface and elevated railroads along the line of or crossing the line of the work.

Surface Railroads.

Section 73. The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads (including steam railroads), including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor will be at the rates specified in the Schedule for electric railroad, Item 75-A, or for horse railroad, Item 75-B, which prices will include the cost of all work incidental thereto. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Elevated Railroads.

Section 74. The Contractor shall maintain and support both temporarily and permanently in a safe condition all elevated railroad structures. Payment therefor will be at the rate specified in Schedule Item 76, which price will include the cost of all incidental work, including the reconstruction and building where necessary of all column foundations and parts of column foundations lying without the net lines of the subway structure.

Subsurface Railroads.

Section 75. The Contractor shall support and maintain both temporarily and permanently in a safe condition all subsurface railroads and their appurtenances. Payment therefor shall be deemed included in the prices for excavation, Schedule Items 1, 2 and 3.

Facilities to be Given to Make Extensions.

Section 76. In the event of the owners or the City desiring to make any alteration or extension to their structures, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

Parks and Parkways, Trees, etc.

Section 77. In any park or parkway, or where any grass plots or trees exist along any street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree of the same kind as the tree removed, injured or destroyed, and not less than fifteen (15) feet in height and not less than three and one-half (3½) inches in diameter measured two feet above the surface of the ground, and in such position as the Commissioner of Parks shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants

removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

Section 78. In replanting trees and the replanting of grass plots the Contractor must be governed by the reasonable requirement of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be approved by such authorities and by the Commission.

Payments, How Made.

Section 79. Payment for all work covered by Sections 77 and 78 shall be included in the prices paid for Park or Street Surface Restored, Schedule Items 31 or 30.

5—EXCAVATION.

Width of Excavation.

Section 80. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the railroad, as shall be necessary in the opinion of the Engineer for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Depth of Trenches.

Section 81. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Sides to be Secured.

Section 82. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheeting.

Section 83. Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned.

Section 84. To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and shall safely and permanently underpin adjacent buildings. As part of this obligation the Contractor shall use such methods of construction or underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Payment For.

Section 86. Where underpinning of a building is necessary and the work is done as provided in Section 84, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4. The classification as to the number of stories has reference to the number of stories above the surface of the street.

Sheeting.

Section 87. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section 88. All timber used for sheeting, shoring, bracing, decking or other temporary purposes, shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of hard yellow pine, sound, straight and free from all shakes, and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

Vaults of Abutting Property.

Section 89. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section 102, but the restoration of all such walls or other parts of vaults within the ordered net lines of excavation will be paid for at the unit prices specified in the Schedule applicable to the several classes of work and material involved in such restoration.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be at the Contractor's own cost and expense.

Vaults Disturbed.

Section 90. Wherever vaults are broken through or otherwise disturbed, the Contractor shall, at his own cost and expense, erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Rock.

Section 91. Ledge rock in place, and boulders within the ordered line of excavation requiring blasting, will be considered as rock excavation.

Preparations for Rock Measurement.

Section 92. Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than 20 feet; and the engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Blasting.

Section 93. Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section 94. No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and it shall be kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

Near Pipes and Mains.

Section 95. Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

General Precautions in Blasting.

Section 96. In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Blasting.

Section 97. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides,

and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section 98. Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Carts to be Tight.

Section 99. All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Removed Expeditiously.

Section 100. Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the Harbor of New York.

When Excavated Material May be Taken by the City.

Section 101. If at any time during the course of construction the City shall desire for City purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section 102. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders requiring blasting.

Excavation in Trenches, How Measured.

Section 103. The net outside width of the railroad structure, as ordered and indicated on the plans, and the depth, also as ordered and as indicated on the plans, will govern as to width and depth in the measurements for payment for excavation. No deduction from the volume of excavation determined as above, will be made on account of basements or cellars in property acquired by the City for the construction of the railroad or on account of vault space or of spaces occupied by pipes and other subsurface structures.

No Allowance Outside of Ordered Net Lines.

Section 104. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines as above indicated, or in rock excavation, for irregularities of surface; and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the schedule.

Change of Street Grade.

Section 105. Where the contract drawings indicate that the grade of any street is to be raised the Contractor shall fill in the street to the changed grade as required and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section 106. Excavation shall be paid for at the price or prices given in Schedule Items 1 and 2 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section 107. The prices herein stipulated for excavation, Schedule Items 1, 2 and 3, are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance, support, etc., of all surface and subsurface structures of whatever nature, payment for the maintenance and support of which is not herein elsewhere specifically provided for.

6—TUNNELING.

How Lined.

Section 108. All tunnels shall be lined with steel or cast iron and concrete, or with concrete or brick masonry.

Where tunnels are lined with concrete or brick work without metal tubes, proper provisions shall be made for keeping the tunnels dry by the use of drains, and by other methods as elsewhere provided.

Packing.

Section 109. The space between the extrados of the arch or back of the sidewalls and the rock or other materials of excavation, shall be filled with concrete to a height of two feet above the spring line of the arch—above this concrete the space shall be filled with dry masonry packing. Similarly in the tunnel floor, if concrete is used, all loose muck shall, if directed by the Engineer, be removed to the solid rock and the space filled in with concrete up to the bottom line of the section ordered by the Engineer for tunnel excavation and concrete. All such concrete or other packing, being outside of the net section line for excavation as ordered by the Engineer, shall be at the sole expense of the Contractor.

Grout.

Section 110. After the tunnel lining and packing is in place, if required by the Engineer, a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part Portland cement, shall be pumped in under pressure, from time to time behind the masonry, so as to completely fill all the voids. Where tunnels are made by the use of a shield, similar grout shall be pumped in to completely fill the space left by the tail piece of the shield as soon as the shield is moved forward.

Payment for Grout.

Section 111. Where grout is ordered and used, it shall be paid for at the price herein provided, Schedule Item 11.

Lines for Excavation.

Section 112. The tunnel, at any place, is to be excavated to the line of the cross-section ordered by the Engineer for that place.

No Payment for Excavation Beyond Ordered Lines.

Section 113. All loose or shaky rock, whose fall or settlement might, in the judgment of the Engineer, produce an unequal or concentrated pressure on the masonry, shall be removed, and the space refilled with such class of masonry as the Engineer may require and as provided in Section 109, but no payment will be made for any excavation outside of the cross-section of the tunnel excavation ordered by the Engineer, as provided in Section 112.

Blasting.

Section 114. Drilling and blasting must be conducted with all possible care and in such a manner as not to shatter the roof and sides outside of the section lines, as ordered by the Engineer, nor endanger adjoining property.

Drains.

Section 115. All seams carrying water shall be carefully drained, as specified under the clauses relating to drainage.

Precautions Against Settlement.

Section 116. The Contractor must take every precaution, and such precautions as the Engineer may direct, by suitable shields, timbering, lagging or other supports, to prevent any settlement or movement of surrounding ground. Such timber as cannot be drawn without endangering the work or the ground above, shall be left in place and thoroughly surrounded by masonry and grouted.

Timbering.

Section 117. Timbering shall be used wherever necessary to support the materials or to secure the safety of the work or workmen. It will be at the sole expense of the Contractor and included in the contract price for tunnel excavation, Schedule Item 5. Wherever practicable it shall be removed before the concrete lining or concrete or other packing is placed.

Compressed Air.

Section 118. If for the work under the Harlem River and for the approaches thereto or elsewhere on the work a method is adopted requiring the use of compressed air, a plant must be provided of sufficient capacity to insure at all times and under all conditions an ample supply of air to prosecute the work with safety and dispatch, and proper air locks shall be built with safety locks, in addition to provide for the escape of workmen at time of accident.

Methods to be Approved.

Section 119. All methods of tunneling shall be subject to the approval of the Engineer, and be changed from time to time, if, in his judgment, the local conditions so require, and during construction approved methods of ventilation and lighting shall be used.

Tunneling, Payment For.

Section 120. The price per cubic yard, stipulated herein, Schedule Item 5, for tunnel excavation, is to cover all expense due to the presence of quicksand or other soft material, rotten rock, boulders, etc.; the cost of all pumping and bailing; of all timbering, and removal of same; of removing all excavated material; of all ventilation and lighting; and of all other work incident to the excavation of the tunnel. Any expense that may arise from loose or shaky rock or from falls or cave-ins, or from any unexpected obstacles, shall be borne by the Contractor. In earth sections the tunnel excavation must be large enough to permit building the masonry to the full required thickness, clear of such timbering and lagging as it may be necessary to build in. As a fair provision for such contingencies, it is assumed that the excavation will extend an average distance of one (1) foot outside the net line in the roof and sides and six (6) inches below the net line in the floor, and measurements for payment in tunnel excavation in earth will be made to those lines. It is distinctly understood, however, that no such allowances or any other allowance in tunnel excavation will be made in connection with timbering in tunnel excavation in rock.

Chambers, Drains, etc.

Section 121. Excavations for chambers, for skewbacks of arches, for sump holes, drains or for any other purpose in the tunnel, are to be measured according to the lines of the cross-sections determined by the Engineer, and paid for by the cubic yard as tunnel excavation.

Additional Enlargement.

Section 122. If after the excavation has been made of a certain size by direction of the Engineer, he is of opinion that the nature of the rock or other material is such that the form and dimensions of the masonry for which said excavation was intended must be increased, he may order an enlargement of the excavation for the purpose of building masonry of greater thickness, and the Contractor is to make such enlargement, which is to be measured according to the lines given by the Engineer, and paid for at the price per cubic yard stipulated in the schedule for tunnel excavation.

7—BACKFILLING.

Quality of Material. How Placed.

Section 128. The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six inches in depth.

Subsurface Structures. Frozen Material Not Permitted.

Section 129. Whenever pipes, sewers or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

Section 130. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, or shall be left in place, as may be directed by the Engineer, and the spaces left by the removal of such material carefully back-filled.

How Paid For.

Section 131. The cost of backfilling is to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2, 2-A, 3 and 3-A.

8—PILING AND TIMBERING.

Piles.

Section 132. If in the judgment of the Engineer the ground is of such a character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good sound pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

Piles Driven in Required Location.

Section 133. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section 134. The price herein stipulated to be paid, per linear foot of timber piles, Schedule Item 12, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section 135. If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Payment for Piles Other Than Timber Piles.

Section 136. Payment for piles other than timber piles will be as provided in Article XII. of the contract.

Grillage.

Section 137. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section 138. All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

Foundation Timber, Measurement and Payment.

Section 139. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his direction. Payment for foundation timber will be as provided in Schedule Item 13.

9—CEMENT.

Portland Cement.

Section 140. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks, to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to be Approved.

Section 141. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section 142. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section 143. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section 144. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section 145. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO_3) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section 146. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 inch and 0.0024 inch in diameter.

Time of Setting.

Section 147. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section 148. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section 149. Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength, per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) pounds. The strength at twenty-eight (28) days shall not be less than that at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, shall have at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than two hundred (200) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Long-time Tests.

Section 150. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section 151. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section 152. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section 153. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

10—MORTAR.

Cement and Sand. Mixing.

Section 154. All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

Section 155. For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; and for other classes of work, as directed by the Engineer; for grout, one (1) part of cement to one (1) part of fine sand.

11—MASONRY.

Laid in Portland Cement.

Section 156. All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Section 157. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section 158. During freezing weather such masonry only shall be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor shall provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

Protected in Freezing Weather.

Section 159. During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Hot Weather.

Section 160. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section 161. Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Section 162. Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

Section 163. No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Defective Masonry.

Section 164. Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

Section 165. All stone before being laid shall be thoroughly cleaned and washed if so directed by the Engineer.

12—CONCRETE.

How Composed.

Section 166. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below.

Sand.

Section 167. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section 168. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section 169. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths (⅜) inch in diameter, and no pieces that will not pass through a hole one and one-half (1½) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths (⅜) and three-fourths (¾) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section 170. In concrete, where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may embed in the same pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly embedded. No two (2) stones shall be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

Section 171. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section 172. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone. Concrete for tube tunnels under the Harlem River will be as indicated on the plans.

Section 173. Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone.

Mixing by Machine.

Section 174. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used.

Mixing by Hand.

Section 175. When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet, as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Section 176. Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or spading, special tamping bars or tools being used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Section 177. Concrete to which waterproofing is to be applied shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Section 178. Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleaned.

Section 179. Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Section 180. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface shall be left rough to form a bond with the new work; and if deemed necessary by the Engineer, the points shall be reinforced with steel bars or dowls, to be furnished by the Contractor.

Joints Cleaned.

Section 181. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section 182. Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Section 183. No forms made of wood, and covered with iron will be permitted.

Section 184. The forms, if made of wood, shall be made of boards with tight joints, tongued and grooved, if required by the Engineer.

Precautions in Placing.

Section 185. Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

Section 186. The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before

placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Reinforcement Steel.

Section 187. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not to be Painted.

Section 188. The exposed faces of the concrete, excepting within station limits, shall be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids, as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

Impervious to Water.

Section 189. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Concrete, How Measured and Paid For.

Section 190. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centres, forms, etc., and removing the same, and all work incidental thereto.

Backing or Filling Concrete, Not Paid For.

Section 191. No concrete backing or filling outside of the ordered net lines of excavation will be paid for.

(For Concrete in Sewers, see Sewers.)

13—BRICK MASONRY.

Quality.

Section 192. Bricks for masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Section 193. Hollow terra cotta blocks or bricks may be required in station work, on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

Section 194. All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in stations) not exceeding one-quarter ($\frac{1}{4}$) of an inch in the beds, and three-eighths ($\frac{3}{8}$) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

Section 195. The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

Section 196. All bricks of whatever nature shall be carefully culled and, if necessary, gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

Racked or Toothed.

Section 197. All unfinished work shall be racked or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Section 198. Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

Measurements and Payments.

Section 199. Brick masonry shall be measured to the lines indicated and shown on the plans and as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry, and Item 10 for hollow terra cotta brick or tile masonry; these prices are to include the cost of all scaffolding, forms, centres, etc., and the removal of the same, of all plastering and pointing, and of all other work incidental thereto.

14—STONE MASONRY.

Rubble Stone Masonry, Where Used.

Section 200. Rubble stone masonry will be used for supporting the street railroads over the roof of the Railroad where permanent supports are required, or at such other places as the Engineer may require.

How Laid.

Section 201. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Measurements and Payments.

Section 202. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8.

Other Masonry.

Section 203. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article 12 of the contract.

15—WATERPROOFING.

General Limits of Waterproofing.

Section 204. In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

Protecting Masonry.

Section 205. The protecting masonry shall be hollow terra cotta blocks, common brick or concrete, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section 206. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section 207. All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a treated woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

Section 208. The term "ply" as used in these specifications shall mean a layer of treated woven fabric, both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

Section 209. The number of plies of waterproofing on the sides at stations shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Section 210. Over the roof of the structure within station limits and over the tracks passing through the stations within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, or if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

Quality of Brick.

Section 211. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section 212. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Section 213. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section 214. Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Section 215. Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped, at the sole expense of the Contractor.

Quality of Pitch.

Section 216. Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Coal-tar Pitch.

Section 217. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25) per centum and not more than thirty-two (32) per centum of free carbon, which will soften at approximately 70° F., and melt at 100° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section 218. The asphalt used shall be the best grade of Bermudez, lake or other natural asphalt, subject to the approval of the Engineer, and shall comply with the following requirements:

The asphalt shall contain in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum

naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

Section 219. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

Section 220. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall then be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric for Waterproofing to Be Carefully Laid.

Section 221. The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken by overlapping, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Section 222. When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

Skilled Labor to Be Employed.

Section 223. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section 224. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

16—STEEL AND IRON.

Open Hearth Process.

Section 225. Steel shall be made in open hearth furnace.

Chemical and Physical Properties.

Section 226. The chemical and physical properties of finished material shall conform to the following limits:

Properties	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. "	.05%	.04%	.05%
Mn. "	.60%	.60%	.80%
Si. "	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000±(Min.)
Yield Point	55% Ult.	55% Ult.	35000±(Min.)
Elongation	$\frac{1500000}{\text{Ult. Str.}}$	$\frac{1500000}{\text{Ult. Str.}}$	20% in 2″
Fracture	Silky.	Silky.	Fine granular.
Cold Bend	180° flat.	180° flat.	120° (d.=3+.)

Yield Point.

Section 227. The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Section 228. Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel Castings.

Section 229. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section 230. The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for Bending.

Section 231. Specimens for bending shall be cut from the material as rolled.

Rivet Rods.

Section 232. Rivet rods shall be tested as rolled.

Steel Castings.

Section 233. For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

Ductility Elongation.

Section 234. In determining the ductility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

Section 235. For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the outside of the bar.

Section 236. For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

Section 237. The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

Section 238. At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

Section 239. A variation in weight of any piece of steel of two and one-half (2½) per centum from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Section 240. Each finished piece of steel shall be marked with the melt number, excepting that bars for reinforcing concrete shall be bundled and the melt number stamped on a metal tag attached to each bundle.

WROUGHT IRON.

Double Rolled.

Section 241. All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile, and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

Section 242. The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) lbs. per square inch, and a yield point of twenty-six thousand (26,000) lbs. per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True to Pattern Tests.

Section 243. All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attended the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) lbs. with a deflection of at least one-tenth (1/10) of an inch before rupture.

WORKMANSHIP.

Quality.

Section 244 All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods Deformed Sections.

Section 245. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods and Bars.

Section 246. Bent rods and bars and other bent material shall be bent hot and annealed, except that obtuse bends in material less than one square inch section may be made cold when permitted by the Engineer. The bending shall be done before the material is delivered on the work. Except in special cases, all bends shall be made uniformly to template.

Material Straightened in Shop.

Section 247. All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

Section 248. All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

Section 249. In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1/16) of an inch, the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the materials to be sub-punched and reamed, a punch of diameter three-sixteenths (3/16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1/16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

Section 250. All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Section 251. Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

Section 252. All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Section 253. Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall

be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Section 254. Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

Section 255. All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Section 256. Finished members shall be true and free from kinks, twists, or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Section 257. Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Section 258. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

Section 259. All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of the strain, so as to insure even bearings.

Stiffeners.

Section 260. Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (1/8) of an inch of flange angles.

Pins and Rollers.

Section 261. Pins and rollers shall be turned accurately to a gauge, and shall be of full size throughout. All pin-holes shall be bored truly and at right angles to the axes of the members to be connected, and shall fit the pins with a play not exceeding one thirty-second (1/32) of an inch.

Bed Plates Planed.

Section 262. Bed plates shall be planed. The bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Section 263. Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

Section 264. The weight of every piece and box shall be plainly marked upon it.

Inspection.

Section 265. Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

Section 266. The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

Section 267. The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Errors in Plans.

Section 268. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Chemical Analysis.

Section 269. Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analysis.

Section 270. Check analysis shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

Section 271. The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

Section 272. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section 273. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground and to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel and Cast Iron.

Section 274. The prices to be paid for steel and cast iron are as herein provided in Schedule Items 19, 20, 21, 22, 23 and 24. These prices include the cost of material delivered and erected in the work, with the exception of Item 23, the placing of which is provided for in Item 22. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings.

Section 275. For other castings, not included in the above and not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25.

WIRE MESH.

Wire Mesh.

Section 276. Wire mesh, of a character and weight to be approved by the Engineer, is to be furnished and placed around the lower flanges of the roof girders, and at other places as may be required, in order to hold the concrete in place.

Wire Mesh, Payment For.

Section 277. Wire mesh, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

17—PAINTING.

Section 278. All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

Section 279. All iron shall be scraped free from scale, and receive one coat of red lead paint as herein specified before leaving the shops. All surfaces which come

in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

Section 280. The red lead shall be strictly pure, and shall contain at least 80 per cent. of "true lead" ($Pb_3 O_4$). The color shall be a clean, pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk bolting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

Section 281. The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212° Fahr. on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60° Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section 282. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section 283. Red lead paint shall be mixed in the proportion of 500 pounds of red lead to 5½ gallons of boiled linseed oil, and 11 gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section 284. Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Section 285. Structural steel and rods to be embedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

Section 286. The second coat of paint shall be a carbon paint approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon.

Metal to be Cleaned After Erection.

Section 287. After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Section 288. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer.

Third Coat, When Applied.

Section 289. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after a completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable. The several field coats shall be sufficiently tinted to be distinctive.

Surfaces in Contact.

Section 290. Surfaces of exposed members inaccessible after erecting, shall be cleaned and painted before erecting.

Recesses, etc.

Section 291. All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

Section 292. All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth, if necessary.

Rainy or Freezing Weather.

Section 293. No painting in rainy or freezing weather or on wet surfaces will be permitted.

Payments.

Section 294. Payment for painting is included in the prices for steel and iron.

18—DUCTS AND CONDUITS.

Vitrified Ducts—Quality and Size.

Section 295. The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters liable to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to injure the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

Thickness of Ducts.

Section 296. The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

Ends Combed.

Section 297. The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

Section 298. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section 299. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section 300. The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick unbleached muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. The muslin shall be not less than 56 by 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

Mandrels.

Section 301. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section 302. The ducts shall be laid with dowel pins, at least two pins on the opposite sides horizontally.

Laid to Line.

Section 303. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To be Rodded.

Section 304. After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening.

If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts, during construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section 305. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad.

Duct Manholes.

Section 306. Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the Railroad, as necessary, in accordance with the location of the duct lines. They may vary in form as may be necessary to accommodate the work to local conditions.

Duct Manholes at Stations.

Section 307. Duct manholes will be built at the ends of the stations to provide for the passage of the ducts under the station platforms, and if found necessary on account of the lengths of stations, additional manholes will be constructed under the platforms.

Section 308. At manholes the ducts will be laid to conform to the special conditions.

Section 309. In all work where iron pipe or fibre conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Section 310. The iron pipe or fibre conduits required by section 309 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

Section 311. All iron conduit used for any purpose in connection with the work herein shall be of the best grade (Galvaduct or equal), standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. It shall be delivered to the work in bundles of full length pipes, each length marked with the trade-mark of the manufacturer. It shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Installation.

Section 312. All conduit shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Watertight.

Section 313. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a watertight job.

Fibre Conduits, Quality, Laying, etc.

Section 314. All fibre conduit shall be made of impregnated fibre equal to that manufactured by the Fibre Conduit Company of Orangeburg, New York.

It shall be of uniform thickness, having walls of not less than one-quarter (¼) inch and true cylindrical holes not less than two (2) inches in diameter. Lengths shall be not less than five (5) feet, and all ends shall be finished.

All joints shall be made by suitable finished sleeves fitting closely over the ends of the conduit and made watertight by making up with an approved bituminous compound.

After laying, all ducts shall provide a clear, true opening, free from obstructions and imperfections in any way injurious to the wires to be installed. All ducts shall be rodded and cleaned with an approved mandrel not less than one and three-quarter (1¾) inches in diameter and eighteen (18) inches long.

Built in Concrete, etc.

Section 315. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Not Built in Concrete.

Section 316. Conduit not built into the structure shall be supported by approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section 317. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section 318. Measurements for the above iron pipe or fibre conduits shall be per linear foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section 319. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a watertight joint. Covers shall be of cast iron and watertight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet box furnished and placed in the work shall be as herein stipulated in Schedule Item 33.

19—DRAINS AND PUMPS.

Railroad to be Drained.

Section 320. Every part of the Railroad, the stations and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Section 321. Where the Railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the Railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the Railroad and draining into the sewers.

Subdrains.

Section 322. Along such parts of the work where the soil is not porous, or where the floor of the Railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Connections and Cross Drains.

Section 323. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the Railroad shall be as necessity demands and all as directed by the Engineer. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron. as directed.

Broken Stone for Drainage.

Section 324. On the roof of the Railroad and at other points as may be directed or indicated on the plans, broken stone shall be placed for the purposes of drainage.

Sumps.

Section 325. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the subdrains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section 326. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall each have a separate source of power, and shall be arranged to operate antomatically. Under this contract the Contractor will only furnish the pump or pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

The pumps shall be of the capacity required by the Engineer.

Capacity.

Section 327. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Delivery to Sewers, etc.

Section 328. The delivery of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains, Broken Stone, Pumps, etc.

Section 329. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Item 17. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever such as bends, tees, wyes, handholes, etc., and all materials necessary for jointing the same. Where back-pressure valves or gate valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Section 330. For broken stone for drainage, furnished and placed, Section 324, payment will be made as provided in Schedule Item 14.

Section 331. For pumps, Section 326, the Contractor will be paid as provided in Article XII. of the contract, not including, however, the pipe connections with sumps and sewers which pipe will be paid for as hereinbefore provided in Schedule Item 17.

Soil Pipes for Stations.

Section 332. It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in positions as shown on the plans and will be paid for as provided in Schedule Item 34.

20—SEWERS.

In Accordance With Plans and Specifications.

Section 333. All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades, at the depths, with the connections, and in the manner called for by these specifications and shown on the drawings.

Change of Location.

Section 334. If in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

Section 335. The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims for Damages.

Section 336. Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of

departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section 337. The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the Railroad, shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but shall be not less than three feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Section 338. Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section 339. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section 340. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle, enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin. In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations.

Section 341. Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary, and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form, with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Inspection of Grades.

Section 342. When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector, and no construction work shall be done in his absence.

Trenches to be Kept Free from Water.

Section 343. The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunneling.

Section 344. When tunneling for sewers shall be deemed advisable, it shall be done in a manner approved by the Engineer.

Gutter and Passageway to be Kept Open.

Section 345. At all times, gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Section 346. Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

Section 347. All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

Section 348. The Contractor shall provide for the flow of all sewers, drains and watercourses, interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Brick.

Section 349. In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two rings of bricks are required.

How Laid.

Section 350. The bricks shall be properly wet immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the points to be carefully struck on the inside.

Racked Back or Toothed.

Section 351. All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Back or Stone Inverts.

Section 352. All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used for the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

Section 353. The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed or withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling in of the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Section 354. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the

sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

Section 355. Spurs shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Section 356. Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used unless otherwise ordered by the Engineer. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water mains.

Under Station Platforms.

Section 357. Wherever the sewer passes under a station platform or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed, as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Section 358. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section 359. Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Section 360. Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place.

Invert to be Protected.

Section 361. The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Section 362. Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work.

Defective Work.

Section 363. If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

Section 364. No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

Section 365. In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers—Quality of Pipe.

Section 366. Pipe sewers shall be built of vitrified, salt glazed stoneware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

Section 367. The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

6-inch pipes shall be not less than ⅝ of an inch thick.
8-inch pipes shall be not less than ¾ of an inch thick.
10-inch pipes shall be not less than ⅞ of an inch thick.
12-inch pipes shall be not less than 1 inch thick.
15-inch pipes shall be not less than 1¼ inches thick.
18-inch pipes shall be not less than 1½ inches thick.
24-inch pipes shall be not less than 2 inches thick.
30-inch pipes shall be not less than 2½ inches thick.

Lengths.

Section 368. No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved and Split Pipes.

Section 369. When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length. Split pipes shall be used when found necessary.

Hub and Spigot Pipe.

Section 370. In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

Section 371. In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than five inches wide. Each collar must have an internal diameter of not less than one-half inch nor more than one and one-half inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Section 372. Pipes having spurs not less than six inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

Section 373. The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Section 374. Bends, siphons and special pipes shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

Section 375. All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be four inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

Section 376. When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

Section 377. When pipe without hubs is used, a collar or ring shall be used at joints and shall lap equally the ends of each abutting pipe. Such collar or ring shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

Spaces Between Pipes Uniform.

Section 378. The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be removed and the inside of the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Section 379. Sewers of iron pipe, of quality and laid in the manner described elsewhere in these specifications for the laying of water mains, shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Section 380. Wherever such pipes are laid under station platforms or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an airtight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Section 381. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

Section 382. All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

Section 383. All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid,

except as may be necessary in tamping the earth and refilling, will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

Section 384. The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

Section 385. The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Section 386. The masonry of manholes shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by selected bluestone slabs eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

Section 387. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Section 388. Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

Vitrified Bricks or Granite Blocks.

Section 389. The invert shall be built of vitrified brick, granite blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section 390. A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Section 391. Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Section 392. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section 393. A cast iron manhole head and cover of the quality specified for cast iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Section 394. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Section 395. Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds.
Street manhole cover, 135 to 150 pounds.
Sidewalk manhole head, 300 to 310 pounds.
Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

Section 396. When the pavement of the street is asphalt on wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Manhole Heads and Covers.

Section 397. All manholes in station platforms, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section 398. Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

Section 399. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section 400. Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

Section 401. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

Section 402. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section 403. Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-Iron Cover.

Section 404. A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

Section 405. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

Section 406. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

Joints.

Section 407. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so desired.

Iron Steps.

Section 408. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section 409. The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as in the opinion of the Engineer may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Section 410. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section 411. Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Mortar.

Section 412. All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

Section 413. All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

Section 414. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under the heading of "Street Surface and Park Surface Restored."

Permits for Connections.

Section 415. The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections. This is not to be construed, however, as permitting the introduction of storm water or sewerage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section 416. During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor, all at his own expense.

Payment for Sewers.

Section 417. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 37 to 74, both inclusive, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections 333 to 416 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavations.

Section 418. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), on the basis of size of trench stipulated in Sections 337 and 340, excepting where the sewer is built by tunneling, in which case tunnel excavation will be paid for at the price herein stipulated in Schedule Item 5-A (which prices shall include all the matters referred to in Sections 117 and 120), on the basis of the net ordered lines of the sewer. Payment for street surface restored shall be as provided in Schedule Items 30-A or B.

Steel Beams and Reinforcing Rods.

Section 419. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21.

Automatic Flush Tanks.

Section 420. Where automatic flush tanks are built as provided in Section 410 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section 421. Where waterproofing is required and placed in accordance with Section 411 of the specifications it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Siphons.

Section 422. Where inverted siphons passing under the subway structure are called for and built, they shall be considered as part of the regular subway construction from outside to outside of the sewer chambers or between points of departure from standard sewer construction, such limits being indicated on the plans; and payment for such siphons will be made in accordance with the various classes of work or material as are applicable thereto in the Schedule and at the prices therein stipulated for such items.

Cast-Iron Pipe Sewers, etc.

Section 424. All cast-iron pipe sewers wherever built, and the parts, within the limits of the Railroad, or as indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

House and Drainage Connections.

Section 425. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Sections 422 and 424 will be included in the prices for the several classes of work and material entering into such construction.

21—Requirements for Pipes.

Generally.

Section 426. Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

Section 427. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section 428. The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

Section 429. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots

to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth (⅛) of an inch, or whose dimensions differ by more than one-eighth (⅛) of an inch from those required.

Section 430. The pipes shall be designated by dimensions of the interior diameter

Section 431. Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

Section 432. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Section 433. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section 434. The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

60-inch pipes,	12,835	pounds each.
48-inch pipes,	8,270	pounds each.
42-inch pipes,	6,860	pounds each.
36-inch pipes,	5,305	pounds each.
30-inch pipes,	3,940	pounds each.
24-inch pipes,	2,660	pounds each.
20-inch pipes,	2,005	pounds each.
16-inch pipes,	1,475	pounds each.
12-inch pipes,	1,015	pounds each.
8-inch pipes,	580	pounds each.
6-inch pipes,	415	pounds each.

High Pressure Fire System.

Section 435. For high-pressure fire system standard spigots and grooves—The weights for straight pipes, with lugs, shall be approximately as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch	355	420	550	935
12-inch	615	745	1,000	1,765
16-inch	1,005	1,215	1,635	2,905
20-inch	1,475	1,795	2,425	4,320
24-inch	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Section 436. The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

Section 437. No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

Underweight.

Section 438. No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent., for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

Straight Pipe Cast Vertically.

Section 439. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Section 440. All the castings shall be made in such molding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

Section 441. All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and

the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

Section 442. The metal of which the castings are to be cast (which shall be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

Section 443. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings to be Clean.

Section 444. The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes shall be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Section 445. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section 446. The coal-tar pitch shall be made from coal tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Section 447. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and shall be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Section 448. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit, before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

Section 449. No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section 450. The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

Section 451. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the Inspector.

Blocking and Wedges.

Section 452. Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

Timber for Blocking.

Section 453. The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

Section 454. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and the hub shall be packed with clean, sound jute packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a watertight joint

Lead.

Section 455. The lead to be used shall be of the best quality of pure, soft lead. and in every respect suitable for the purpose.

Notice of Interruption to be Given.

Section 456. In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

Connections Interfered With.

Section 457. All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stopcocks, etc.

Section 458. Stopcocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Section 459. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

22—STREET SURFACE AND PARK SURFACE RESTORED.

Pavement to be Restored.

Section 460. As soon as the structure in any excavation or trench made within a street shall be completed and the trench backfilled, a temporary pavement shall be laid and maintained in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as, that existing previous to the commencement of construction; except that the Contractor will not be required to permanently restore the pavement of roadways between curb lines, but shall provide a temporary roadway pavement as follows:

Temporary Roadway Pavement.

Section 461. Upon the backfill, placed and compacted as provided under the clauses relating to backfilling, shall be placed a layer of sand, about an inch and

a half in thickness, on which shall be laid a pavement of granite blocks carefully laid and rammed to the required finished grade of the street surface. The end and side joints shall be thoroughly filled with sand, and shall not exceed ¾ of an inch in thickness. The granite blocks required for this temporary pavement, if found in or under the original pavement, shall be stored at a suitable place until required for use. In case granite blocks are not found in or under the original pavement, they may be obtained by the Contractor, free of cost, from the Bureau of Highways at the corporation yards.

The Contractor shall maintain the temporary roadway pavement thus laid for a period not exceeding six months from the time of its completion in any one block or street intersection. During this period the Contractor shall, without requiring previous notice, readjust or relay any portion of the pavement wherever and whenever a straight edge 3 feet long, laid in any direction, shows a depression of more than ¾ inch.

All the requirements as to street surface restored, including temporary roadway pavements, shall apply to the trenches for sewers, pipes or other subsurface structures along or off the line of the Railroad. Within the limits of private property to be taken by the City for the extension of Irving Place, these requirements will not apply.

Other Sidewalks May be Laid.

Section 462. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such property owner, duly acknowledged in writing by both parties.

In case any property owner desires to lay a sidewalk, or other surface covering within curb lines, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the restoration as hereinbefore provided.

Payment for Street Surface Restored.

Section 463. Payment for street surface restored will be made as provided in Schedule Item 30-A or B, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface.

Measurements.

Section 464. The measurement for payment for street surface restored will be to the net line of ordered excavation.

Outside of Net Lines.

Section 465. All other pavement outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as the result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally good as that existing previous to the commencement of construction.

Parks and Parkways.

Section 466. All parks and parkways including trees, shrubbery, etc., as elsewhere provided in this contract and the specifications, are to be restored to the satisfaction of the Department of Parks.

Measurement.

Section 467. Measurements for park surface restored are to be to the net lines of ordered excavation.

Payment For.

Section 468. Payment for park surface restored will be made at the price provided in Schedule Item 31.

Outside of Net Lines.

Section 469. Any damage done outside of the net lines of ordered excavation in connection with the construction of the work to park surfaces or growths, under the jurisdiction of the Department of Parks, shall be restored to the satisfaction of the said Department, and at the Contractor's own cost and expense.

23—VAULT LIGHTS, GRATINGS AND HAND-RAILS.

Vault Lights.

Section 470. The roofs of the stations, where under sidewalks, parks or parkways, shall, to as great an extent as possible, consist of vault light construction. These lights shall be made with lenses, not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame or panel in every ten (10), as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and if that fail, then the whole lot may be rejected. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

Section 471. The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and the price paid will be as provided in Schedule Item 29, which price shall include all material and work incidental to the completed vault lights in place.

Steel Gratings.

Section 472. Steel gratings shall be provided and placed over fan and other ventilating chambers, over stations and station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Measurement and Payment.

Section 473. Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work.

Galvanized Iron Pipe Hand-Rails.

Section 474. Galvanized iron pipe hand-rails will be placed in the Railroad over the benches containing the ducts. They shall be securely fastened to the wall of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of hand-rail in place in the work, complete, and at the price as stipulated in Schedule Item 27.

IV.—SECURITY TO BE FURNISHED BY CONTRACTOR.

Security by Contractor. Contractor's Bond.

Article 27. Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in the form annexed hereto, entitled, "Form of Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum specified in the Invitation to Contractors for the Section embraced in this contract. In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within ten days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such ten days or such further time as the Commission may grant, to substitute another and sufficient surety, then the contractor shall, for all the purposes of this contract be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor

the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

V.—PAYMENTS TO CONTRACTOR.

Partial Payments.

Article 28. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with the contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand dollars ($10,000). The Engineer shall further include accepted structural iron and steel delivered on the site of the work, but not incorporated in the work, at the rate of forty dollars ($40) per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory, shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, and none of the Contractor's plant shall be included in partial estimates.

Not by Strict Measurement.

Article 29. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article 30. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify a voucher for ninety per cent. of the amount stated in such estimate or certificate to be the value of the work done and materials furnished, and the City shall within thirty (30) days after the date of the certification of such voucher by the Commission pay the same; provided, however, that the City may at all times reserve and retain from said partial payments, or any of them, in addition to the ten per cent. above mentioned to be retained and reserved, any sum or all sums which by the terms hereof, or of any law of the State of New York passed prior to the date hereof, it is or may be authorized to reserve or retain.

Final Estimate.

Article 31. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part, the Engineer shall so certify, in writing, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract. On the expiration of ninety (90) days after the acceptance by the Commission of the work herein agreed to be done by the Contractor, and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller, signed by the Engineer and the Commission, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the last-mentioned certificate, all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and also any sum or all such sums of money as by the terms hereof the City is or may be authorized to reserve or retain; provided, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work, should the said certificate be found, or known to be, inconsistent with the terms of this contract, or otherwise improperly given. All prior certificates upon which partial payments may have been

made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based.

Interest in Case of Delayed Payments.

Article 32. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article 30, in the case of partial payment, or Article 31, in the case of final payment, the City shall pay the Contractor interest on such amount at the rate of four and one-half (4½) per cent. per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. The term for which interest shall be paid shall be reckoned, in the case of a partial payment from the thirtieth day after the certification of such voucher by the Commission, and in the case of a final payment from the ninetieth day after the acceptance of the work by the Commission, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller for payment in the usual manner.

No Estoppel.

Article 33. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing the true and correct amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article 34. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article 35. The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the Commission, the City or of any person relating to or affecting the work, except only the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claims for Damage. Statements of Damage to be Filed With Engineer.

Article 36. If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Lien Law.

Article 37. If at any time before or within thirty days after the whole work agreed herein to be performed and all the labor and material herein agreed to be delivered have been performed or delivered or completed and accepted by the City any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller of the City any such notice as is described in the Lien Law, the City shall retain until the discharge thereof from moneys under its control so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice.

VI.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

Article 38. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures or to navigation; and the Contractor will at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures or to navigation. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part, or on the part of his agents, servants or employees and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage. Where the work is required to be done by tunneling the same admission and covenant shall also apply to the foundations, walls and other parts of buildings and to any railroad track or structure, subway, street, conduit, pipe, sewer or other structure or surface over the tunnel. But this admission and covenant shall not apply to the foundations, walls or other parts of buildings or any part thereof acquired by the City and which the Engineer may determine should be razed.

Traffic to be Maintained.

Article 39. The Contractor shall, during the performance of the work, safely maintain the traffic on streets, avenues, highways, parks, waters or other public places as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

Article 40. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor or May be Retained to Meet Claims.

Article 41. In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property as aforesaid, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned, the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard

to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or any part thereof, for a time not exceeding the time when such claims would be barred under the existing Statute of Limitations, as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article 42. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above.

Damage to Works During Construction.

Article 43. All risk of loss or damage to the works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VII.—CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE BY INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article 44. The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances.

Claims for Infringement of Patents.

Article 45. The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

Article 46. The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the works free of interference or right of interference; provided, however, that this covenant shall not apply to or include any damages for physical injuries to property referred to in chapter 6 hereof, whether or not compensation for such damages be awarded in a condemnation proceeding. If compensation for any such damages shall be included in an award in condemnation proceedings the Contractor shall, upon demand, promptly reimburse the City for any payments made by it for such purposes.

VIII.—TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article 47. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within forty-two (42) months from the date of the delivery of this contract.

Price to be Reduced for Delay.

Article 48. In the event of delay in completion of the works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due) there shall be deducted and retained by the City the following percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly from any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained by the City and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any subcontractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended by resolution of the Commission to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

Article 49. But no injunction, strike or interference of public authority shall be ground for such extension, except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel of the Commission or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Article 50. The time stipulated within which to complete the works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article 51. The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor

for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

Article 52. In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three (3) months from the date of the delivery of such notice the Commission shall allow the Contractor so much additional time wherein to perform and complete this contract on his part as the Engineer shall certify in writing to be just, but no allowance by way of damages shall be made for such delay.

Extension's Not Cumulative.

Article 53. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article 54. The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

IX.—REMEDIES IN CASE OF CONTRACTOR'S DEFAULT.

Article 55. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission may

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this article of the contract. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the bond. And

Or May Bring Suit.

(3) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

X.—MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article 56. No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and by the sureties upon his bond; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

Article 57. No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contractor Not to Assign, Sublet, Etc.

Article 58. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article 59. In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

Article 60. The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 36 of the Laws of 1909. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency, caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of the City, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any subcontractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void

and of no effect, unless the Contractor shall comply with the provisions of this section. In obedience to the requirements of section 14 of the Labor Law, it is further provided that if the provisions of the said section 14 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article 61. It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted or is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

Article 62. If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect and shall, upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Contractor has caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

By...................., Chairman.

Attest:

...................., Secretary.

State of New York, County of New York, ss.:

On the .... day of ...., 1910, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally came .... to me known and known to me to be the individual.. described in and who executed the foregoing instrument, and ..he.. duly acknowledged to me that ..he.. executed the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally appeared ...., to me known, who, being by me first duly sworn, did depose and say: That he resided in ...., in the State of........; that he is .... of ...., the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said Company, and that he signed his name thereto by like authority.

Form of Contractor's Bond.

Route No. 5, Section No. 6.

Know All Men by These Presents, That .... of ...., hereinafter called the Contractor, and .... and ...., hereinafter called the Sureties, are

held and firmly bound unto The City of New York, hereinafter called the City, in the sum of .... dollars ($........), lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said sum of .... dollars ($........), and each of the said Sureties to be so held and bound only for a portion of said sum as follows:

The said ....

for the sum of...... ....dollars ($........); the said ....

for the sum of..........................dollars ($........); the said ....

for the sum of..........................dollars ($........); the said ....

for the sum of..........................dollars ($........).

In Witness Whereof, The Contractor and the Sureties have hereunto set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this .... day of ...., 1910.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a Rapid Transit Railroad known as Section 6 of Route 5, in ...., and extending from.......... street to .... street, in the Borough of ...., in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof, now therefore,

The condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defense upon this Bond; that the Sureties shall not set up or have any defense upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

ROUTE 5, SECTION 1, BATTERY PARK TO DEY STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 1.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†...

.... do.. hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form

annexed hereto with The City of New York for the construction of section 1 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	160,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	143,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	61,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	.
	(b) For buildings from seven to twelve stories in height, per front foot........	....	400	....
	(c) For buildings over twelve stories in height, per front foot..................	....	300	....
6.	For concrete masonry, in place, per cubic yard	....	70,500	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	10,300	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	770	....
12.	For timber piles, in place, and prepared, per lineal foot......................	....	5,000	....
13.	For timber foundations, placed and fastened, per thousand feet, B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,200	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	80,000	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	4,000	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 4-ply, per square foot..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	12,200	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,430	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,800	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	238,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	5,500	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	4,400	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	660	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	10	....
26.	For wire mesh in place, per pound........	....	10,600	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	9,000	....
29.	For vault lights, in place, per square foot..	....	4,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard..................	....	7,140	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	14,520	....
31.	For park surface restored (all classes), per square yard	....	20,800	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought iron, per lineal foot..........	....	18,900	....
	(b) For one and one-half inch (1½ inch) wrought iron, per lineal foot..........	....	3,230	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) for two inch (2 inch) wrought iron, per lineal foot........................	....	1,730	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	6,600	....
33.	For cast-iron outlet boxes in place, in stations, each	....	1,030	....
34.	For six inch (6 inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot......	....	140	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,250	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	720	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch per lineal foot	....	*2,168	....
47.	For 4 foot by 2 foot 8 inch per lineal foot.	....	*452	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	5,500	....
	(b) For horse railroads, per lineal foot of single track	....	240	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column........................	....	120	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications. Water and Gas Pipes—Items 77 to 108. Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	760	....
82.	For 12-inch water pipe, per lineal foot....	....	730	....
84.	For 20-inch water pipe, per lineal foot....	....	680	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot........	....	280	....
91.	For 6-inch gas pipe, per lineal foot.......	....	610	....
96.	For 20-inch gas pipe, per lineal foot......	....	90	....

---

*Balance remaining after deducting portion of sewer included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	25	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....
	Steam Pipes, Air Pipes and Mail Tubes—Items 109 to 126. Steam Pipes—Items 109 to 120.			
	For steam pipe, in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	30	....
113.	For 15-inch steam pipe, per lineal foot....	....	830	....
	New Steel-welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 to 120.			
116.	For 8-inch steam pipe, per lineal foot....	....	30	....
119.	For 15-inch steam pipe, per lineal foot....	....	200	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	45,900	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named sureties, viz.:

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room .... on the ...... floor of the building .... in the Borough of ...., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District, is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am† the proposing contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2, DEY STREET TO WALKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	256,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	142,300	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	3,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	100	....
4.	*For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	3,000	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	1,300	....
	(c) For buildings over twelve stories in height, per front foot	....	750	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	23,300	....
6.	For concrete masonry in place, per cubic yard	....	84,800	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	6,220	....
8.	For rubble stone masonry in place, per cubic yard	....	3,250	....
9.	For brick masonry, in place, per cubic yard.	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	2,360	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	4,000	....
12.	For timber piles, in place, and prepared, per linear foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B.M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	45,500	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,300	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	7,300	....

---

*Not to include underpinning, if any, in connection with construction of iron-lined tunnel portion.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	210	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,600	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	365,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	6,700	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,850	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,240	....
22.	For cast-iron tunnel lining, in place in the work, including the placing of bolts and washers and caulking of joints, etc., per ton of two thousand pounds	....	5,300	....
23.	For steel bolts and washers for tunnel lining, per ton of two thousand pounds	....	75	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	20	....
26.	For wire mesh, in place, per pound	....	13,620	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per linear foot	....	9,130	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	10,310	....
29.	For vault lights, in place, per square foot	....	2,900	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard	....	8,065	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	18,695	....
31.	For park surface restored (all classes), per square yard	....	1,300	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought-iron, per lineal foot	....	31,300	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two-inch (2 inch) wrought-iron, per lineal foot	....	830	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place in stations, each	....	1,160	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	380	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,760	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3-foot 6-inch by 2-foot 4-inch, per lineal foot	....	*185	....
47.	For 4-foot by 2-foot 8-inch, per lineal foot	....	(†95)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per linear foot of single track	....	6,750	....
	(b) For horse railroads, per linear foot of single track	....	770	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	6	....
	PIPES IN STREETS—ITEMS 77 TO 126			
	For Work and Material as Called for by Section 71 *of the Specifications. Water and Gas Pipes—Items* 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
82.	For 4-inch water pipe, per lineal foot	....	500	....
85.	For 24-inch water pipe, per lineal foot	....	1,200	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
94.	For 12-inch gas pipe, per lineal foot	....	500	....
95.	For 16-inch gas pipe, per lineal foot	....	500	....
96.	For 20-inch gas pipe, per lineal foot	....	500	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	50	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.........	....	13	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot...................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot...................	....	200	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot...................	....	180	....
106.	For 24-inch high pressure fire system water pipe, per lineal foot...................	....	120	....
	New Cast-Iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds.............	....	15	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	5	....
	Steam Pipes—Items 109 *to* 120.			
	For steam pipe in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	500	....
	New Steel-Welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot.....	....	100	....
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot....................	....	31,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of six hundred thousand dollars ($600,000), in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room ...., on the .... floor of the building ...., in the Borough

of ...., in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the Contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

......................., being duly sworn, says: I am†........................ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2-A, WALKER STREET TO HOWARD STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2-A.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2-A of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	28,070	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	59,370	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	100	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	318	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	70	....
	(c) For buildings over twelve stories in height, per front foot................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	18,180	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2,625	....
8.	For rubble stone masonry in place, per cubic yard	....	500	....
9.	For brick masonry, in place, per cubic yard	....	230	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	105	....
12.	For timber piles, in place, and prepared, per lineal foot........................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,070	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	20,625	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,255	....
	(d) For 4-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	120	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	3,255	....
17.	For vitrified or cast-iron drain pipe in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	800	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	625	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	45,025	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	2,275	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.................	....	1,945	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	23	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	10	....
26.	For wire mesh, in place, per pound......	....	4,100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	900	....
29.	For vault lights, in place, per square foot.	....	2,025	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard..................	....	2,442	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	2,798	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot.........	....	9,640	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot.........	....	520	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot.......................	....	260	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	578	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	770	....
	SEWERS—ITEMS 37 TO 74.			
	Egg-Shaped Brick or Concrete Sewers, Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot..............................	....	(†190)	....
47.	For 4 foot 0 inch by 2 foot 8 inch, per lineal foot..............................	....	(†230)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete, Items 52 *to* 66.			
54.	For 4 foot 3 inch, per lineal foot..........	....	(†42)	....
55.	For 4 foot 9 inch, per lineal foot..........	....	(†208)	....
57.	For 5 foot 6 inch, per lineal foot..........	....	(†68)	....
	SURFACE AND SUBSURFACE STRUCTURES, ITEMS 75 AND 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	1,280	....
	(b) For horse railroads, per lineal foot of single track.......................	....	100	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	500	....
86.	For 30-inch water pipe, per lineal foot....	....	400	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	960	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.................	....	21	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106. For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot..................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot............	....	490	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot............	....	150	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds..........	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	11,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of two hundred and fifty thousand dollars ($250,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No................on the................floor of the building No.........................in the Borough of.................................. in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the

said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of.............., 1910.

ROUTE 5, SECTION 3, HOWARD STREET TO BLEECKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 3.)

Notice—Sums of money must be written in words and also in figures. except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 3 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the..Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	172,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	40,500	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	10,400	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	3,700	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	1,700	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	2,200	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	1,230	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	16,900	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	3,700	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	3,060	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	1,460	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	207,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	2,560	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	780	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,530	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	10	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	6,400	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	3,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,200	....
29.	For vault lights, in place, per square foot	....	5,000	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein or thereon, per square yard	....	9,390	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	14,240	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,600	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot	....	1,000	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	520	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	....	....
33.	For cast-iron outlet boxes in place in stations, each	....	440	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	160	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,272	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	543	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	283	....
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	*554	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	484	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
53.	For 4 foot 0 inch, per lineal foot..........	....	1,145	....
54.	For 4 foot 3 inch, per lineal foot..........	....	*284	....
	SURFACE AND SUBSURFACE STRUCTURES. ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	5,470	....
	(b) For horse railroads, per lineal foot of single track......................	....	720	....
	PIPES IN STREETS—ITEMS 77 *to* 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	600	....
86.	For 30-inch water pipe, per lineal foot..	....	800	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	32	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	8	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 to 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot...................	....	100	....

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
103.	For 12-inch high pressure fire system water pipe, per lineal foot..................	....	410	....
105.	For 20-inch high pressure fire system water pipe, per lineal foot..................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds...........	....	10	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	42,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid; then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate

as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

Route 5, Section 4, Bleecker Street to 14th Street.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 4.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...

.... do..

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 4 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the.......... .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..................	....	181,400	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	14,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	25,700	....
4.	For underpinning buildings, including all incidental work and material per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	2,100	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,600	....
	(c) For buildings over twelve stories in height, per front foot.................	....	70	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	33,000	....
6.	For concrete masonry, in place, per cubic yard	....	46,400	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,200	....
8.	For rubble stone masonry in place, per cubic yard	....	900	....
9.	For brick masonry, in place, per cubic yard	....	1,300	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard.................	....	1,700	....
11.	For grout of Portland cement, per barrel of Portland cement used.............	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,700	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard.........	....	9,900	....
	(b) For 2-ply, per square yard.........	....	100	....
	(c) For 3-ply, per square yard.........	....	1,320	....
	(d) For 4-ply, per square yard.........	....	100	....
	(e) For 5-ply, per square yard.........	....	100	....
	(f) For 6-ply, per square yard.........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,330	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	4,420	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	437,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds........	....	1,940	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds........	....	1,750	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,250	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	16	....
26.	For wire mesh, in place, per pound......	....	6,030	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,140	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	6,200	....
29.	For vault lights, in place, per square foot..	....	900	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard........	....	6,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,470	....
31.	For park surface restored (all classes), per square yard	....	1,350	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot........	....	4,500	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot........	....	570	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot........	....	310	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place in stations, each	....	242	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	25	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,134	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	170	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,978	....
48	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	228	....
	SURFACE AND SUBSURFACE STRUCTURES—*Items* 75 *and* 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	4,800	....
	(b) For horse railroads, per lineal foot of single track	....	150	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	530	....
82.	For 12-inch water pipe, per lineal foot....	....	1,560	....
87.	For 36-inch water pipe, per lineal foot....	....	2,300	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	130	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,800	....
92.	For 8-inch gas pipe, per lineal foot......	....	1,070	....
94.	For 12-inch gas pipe, per lineal foot......	....	270	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	130	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	40	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot....................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot..............	....	90	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot...................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	49,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City damages by it sustained by reason of such failure of

the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.................................., being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 5, 14TH STREET TO 26TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 5.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned*.. do.. hereby, in pursuance to the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 5 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quan-

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the.. Company."

*The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

tities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	106,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	17,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	21,800	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	3,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings, less than seven stories in height, per front foot	....	400	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	75,300	....
6.	For concrete masonry, in place, per cubic yard	....	37,800	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	620	....
8.	For rubble stone masonry in place, per cubic yard	....	350	....
9.	For brick masonry, in place, per cubic yard.	....	3,100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	1,400	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,500	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	5,900	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,600	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	770	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,600	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	9,000	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	525,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	270	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,150	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	130	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes, in place, per ton of two thousand pounds	....	15	....
26.	For wire mesh, in place, per pound.......	....	1,400	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,100	....
28.	For steel gratings, for ventilation, in place, including frames, etc., per square foot..	....	8,300	....
29.	For vault lights, in place, per square foot.	....	5,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard................	....	5,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,050	....
31.	For park surface restored (all classes), per square yard......................	....	1,000	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought iron, per lineal foot...........	....	15,500	....
	(b) For one and one-half inch (1½ inch) wrought-iron per lineal foot...........	....	450	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two inch (2 inch) wrought-iron, per lineal foot........................	....	230	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	4,000	....
33.	For cast-iron outlet boxes in place in station, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	40	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,738	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	280	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	4	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,465	....
47.	For 4 foot by 2 foot 8 inch, per lineal foot	....	248	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	240	....
49.	For 4 foot 6 inch by 3 foot, per lineal foot	....	242	....
50.	For 4 feet 9 inches by 3 feet 2 inches per lineal foot	....	246	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
52.	For 3 feet 9 inches, per lineal foot........	....	264	....
60.	For 6 feet 0 inch, per lineal foot........	....	1,250	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	2,300	....
	(b) For horse railroads, per lineal foot of single track	....	200	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	460	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,490	....
92.	For 8-inch gas pipe, per lineal foot......	....	720	....
94.	For 12-inch gas pipe, per lineal foot......	....	580	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	20	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	5	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	86,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:..

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No...............on the...................floor of the building No.........................in the Borough of................................ in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 6, 26TH STREET TO 40TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 6.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 6 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the.......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B., C. D., etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	73,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	500	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	37,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	116,200	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	27,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	340	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	30	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation (except tunneling sewers), including disposal of material, timbering, etc., per cubic yard	....	85,000	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard	....	2,810	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	370	....
8.	For rubble stone masonry in place, per cubic yard	....	1,700	....
9.	For brick masonry, in place, per cubic yard	....	1,610	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	880	....
11.	For grout of Portland cement, per barrel of Portland cement used............	....	2,500	....
13.	For timber foundations, placed and fastened, per thousand ft. B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,100	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	4,810	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	6,300	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	650	....
17.	For vitrified or cast iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	5,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,200	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	555,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,770	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,710	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	610	....
24.	For cast iron columns erected and painted, per ton of two thousand pounds........	....	60	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	15	....
26.	For wire mesh, in place, per pound......	....	8,200	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,900	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,100	....
29.	For vault lights, in place, per square foot	....	6,400	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	3,170	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	19,630	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	12,000	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	900	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	460	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
33.	For cast-iron outlet boxes in place in stations, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	60	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	720	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,055	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	390	....
47.	For 4 feet 0 inch by 2 feet 8 inches, per lineal foot	....	†(60)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
57.	For 5 feet 6 inches per lineal foot........	....	1,080	....
58.	For 5 feet 6 inches in tunnel, per lineal foot	....	1,280	....
60.	For 6 feet 0 inch per lineal foot..........	....	1,160	....
64.	For 8 feet 0 inch per lineal foot..........	....	420	....
66.	For 9 feet 6 inches per lineal foot........	....	1,935	....
	Sewers of Special Forms—Items 67 to 72.			
71.	For triple section, per lineal foot.........	....	102	....
72.	For 4 feet 0 inch wooden barrel, per lineal foot	....	336	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,800	....
	(b) For horse railroads, per lineal foot of single track	....	270	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	1,230	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	160	....
91.	For 6-inch gas pipe, per lineal foot.......	....	830	....
92.	For 8-inch gas pipe, per lineal foot......	....	880	....
94.	For 12-inch gas pipe, per lineal foot......	....	1,000	....
95.	For 16-inch gas pipe, per lineal foot......	....	110	....
96.	For 20-inch gas pipe, per lineal foot......	....	230	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	27	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	7	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot........	....	250	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	103,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed, with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the ...... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

............................, being duly sworn, says: I am†.................

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 7, 40TH STREET TO 53D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 7.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, copy of form of contract, copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 7 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	125,600	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	6,300	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	221,000	....
3a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	5,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	1,284	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	145	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation (except tunneling for sewers), including disposal of material, timbering, etc., per cubic yard.....	....	17,700	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard.....................	....	565	....
6.	For concrete masonry, in place, per cubic yard	....	54,200	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,240	....
8.	For rubble stone masonry in place, per cubic yard	....	3,200	....
9.	For brick masonry, in place, per cubic yard.	....	800	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	230	....
11.	For grout of Portland cement, per barrel of Portland cement used................	....	500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,250	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard............	....	5,535	....
	(b) For 2-ply, per square yard............	....	100	....
	(c) For 3-ply, per square yard............	....	10,840	....
	(d) For 4-ply, per square yard............	....	100	....
	(e) For 5-ply, per square yard............	....	100	....
	(f) For 6-ply, per square yard............	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	1,020	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,500	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,570	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	609,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	4,390	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.........	....	380	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds.........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	18	....
26.	For wire mesh, in place, per pound........	....	5,900	....
27.	For one and one half inch (1½-inch.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	9,783	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot...	....	10,100	....
29.	For vault lights, in place, per square foot..	....	8,150	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	9,970	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	15,430	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	23,100	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	1,070	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot........................	....	575	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	6,610	....
33.	For cast-iron outlet boxes in place in stations, each	....	994	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	440	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,887	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,044	....
47.	For 4 feet 0 inches x 2 feet 8 inches per lineal foot	....	806	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
53.	For 4 feet 0 inches per lineal foot	....	300	....
58.	For 5 feet 6 inches, in tunnel, per lineal foot	....	257	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	7,192	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	4	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	800	....
82.	For 12-inch water pipe, per lineal foot	....	340	....
84.	For 20-inch water pipe, per lineal foot	....	700	....
86.	For 30-inch water pipe, per lineal foot	....	140	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	360	....
91.	For 6-inch gas pipe, per lineal foot	....	200	....
92.	For 8-inch gas pipe, per lineal foot	....	540	....
94.	For 12-inch gas pipe, per lineal foot	....	270	....
95.	For 16-inch gas pipe, per lineal foot	....	470	....
96.	For 20-inch gas pipe, per lineal foot	....	180	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	10	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	130	....
122.	For 8-inch air pipe, per lineal foot........	....	500	....
123.	For new 6-inch air pipe, delivered on the work, per lineal foot..................	....	30	....
124.	For new 8-inch air pipe delivered on the work, per lineal foot.................	....	100	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,900	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	10	....
	DUCTS IN STREETS			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	106,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of.......................... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any

longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially desposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....................................being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 8, 53D STREET TO 67TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 8.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 8 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons, strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say " (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A, B. C, D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	172,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	24,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	54,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	2,200	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	1,743	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	78,900	....
6.	For concrete masonry, in place, per cubic yard	....	45,100	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	430	....
8.	For rubble stone masonry in place, per cubic yard	....	3,750	....
9.	For brick masonry, in place, per cubic yard.	....	3,480	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	470	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	3,050	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	7,600	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	430	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	11,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	569,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,417	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	760	....
21.	For steel rods and bars built in concrete per ton of two thousand pounds........	....	1,305	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	5	....
26.	For wire mesh, in place, per pound........	....	1,370	....
27.	For one and one half-inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,758	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,560	....
29.	For vault lights, in place, per square foot.	....	5,600	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard...............	....	8,710	....
	(b) For temporary repavement and maintenance of roadways, per square yard....	....	17,190	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,865	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	706	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot........................	....	380	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place, in stations, each	....	494	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot......	....	90	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,596	....

39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,758	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,863	....
47.	For 4 feet 0 inch by 2 feet 8 inches per lineal foot	....	342	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
59.	For 5 feet 9 inches per lineal foot	....	268	....
60.	For 6 feet 0 inch per lineal foot	....	260	....
63.	For 7 feet 0 inch per lineal foot	....	870	....
65.	For 8 feet 9 inches per lineal foot	....	520	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	7,624	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	680	....
84.	For 20-inch water pipe, per lineal foot	....	60	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	400	....
91.	For 6-inch gas pipe, per lineal foot	....	800	....
92.	For 8-inch gas pipe, per lineal foot	....	900	....
95.	For 16-inch gas pipe, per lineal foot	....	60	....
96.	For 20-inch gas pipe, per lineal foot	....	1,000	....
98.	For 30-inch gas pipe, per lineal foot	....	250	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	36	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds	....	9	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot	....	550	....
124.	For new 8-inch air pipe, delivered on the work, per lineal foot	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot................	....	121,000	....

(2) If this Proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:
.............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 9, 67TH STREET TO 79TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 9.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 9 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	101,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	18,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	48,400	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	500	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	350	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	60,900	....
6.	For concrete masonry in place, per cubic yard	....	36,360	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	900	....
8.	For rubble stone masonry in place, per cubic yard	....	4,650	....
9.	For brick, masonry, in place, per cubic yard	....	2,740	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	525	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	4,860	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	7,950	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	824	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,490	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,540	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	491,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	994	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	695	....
21.	For steel rods and bars built in concrete,, per ton of two thousand pounds..	....	1,017	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound.......	....	1,300	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	5,580	....
29.	For vault lights, in place, per square foot	....	2,620	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	4,790	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,760	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot...........	....	14,045	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	478	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot	....	256	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	612	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	300	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,800	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	530	....
42.	For cast-iron sewer pipe (straight pipe), in place in the work, per ton of two thousand pounds	....	12	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,250	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
60.	For 6 feet 0 inch per lineal foot.........	....	1,200	....
62.	For 6 feet 6 inches per lineal foot........	....	240	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports (if required and added and not including additional vaults if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	6,196	....
	(b) For horse railroads, per lineal foot of single track........................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	330	....
82.	For 12-inch water pipe, per lineal foot....	....	1,050	....
83.	For 16-inch water pipe, per lineal feet....	....	100	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	330	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,200	....
92.	For 8-inch gas pipe, per lineal foot......	....	280	....
94.	For 12-inch gas pipe, per lineal foot......	....	290	....
96.	For 20-inch gas pipe, per lineal foot......	....	530	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	30	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	8	....
	Air Pipes—Items 121 to 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per linear foot......	....	410	....
124.	For new 8-inch air pipe, delivered on the work, per linear foot.................	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	170,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of three hundred thousand dollars ($300,000), in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No.........., on the...... floor of the building No............. in the Borough of.............., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that the Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission, to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................, 1910.

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am†
....
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of.................., 1910.

ROUTE 5, SECTION 10, 79TH STREET TO 93D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad

(Route 5, Section 10.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
....do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 10 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	44,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard............................	....	2,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	150,100	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	700	....

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..;" if a corporation, say, "the (President or other officer duly authorized) of the....... ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	910	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	100	....
	(c) For buildings over twelve stories in height, per front foot..................	....	..	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	91,800	....
6.	For concrete masonry, in place, per cubic yard	....	49,540	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	260	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	1,940	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	65	....
11.	For grout of Portland cement, per barrel of Portland cement used...............	....	2,500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,000	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	5,820	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	4,820	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	595	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	4,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	..	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	10,300	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	576,300	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	2,655	....

Item	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,574	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	588	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds......	....	5	....
26.	For wire mesh, in place, per pound........	....	6,970	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	14,968	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot...	....	6,070	....
29.	For vault lights, in place, per square foot...	....	234	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard....................	....	4,130	....
	(b) For temporary repavement and maintenance of roadways, per square yard....	....	8,340	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot...........	....	9,065	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	908	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	477	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	466	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	75	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,985	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	25	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
44.	For 3 feet 0 inch x 2 feet 0 inch per lineal foot	....	†(80).	....
45.	For 3 feet 6 inches x 2 feet 4 inches per lineal foot	....	95	....
47.	For 4 feet 0 inch x 2 feet 8 inches per lineal foot	....	†(210)	....
51.	For 5 feet 2 inches x 3 feet 5 inches per lineal foot	....	†(70)	....

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	3,900	....
	(b) For horse railroads, per lineal foot of single track	....	..	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot......	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	120	....
82.	For 12-inch water pipe, per lineal foot....	....	460	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	200	....
91.	For 6-inch gas pipe, per lineal foot........	....	540	....
92.	For 8-inch gas pipe, per lineal foot......	....	350	....
94.	For 12-inch gas pipe, per lineal foot......	....	100	....
96.	For 20-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipes—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.................	....	12	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	150	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot..................	....	19,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pur-

suant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..........................on the........................ floor of the building No..in the Borough of ....in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of the City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.: ....

....being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this......................day of...................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the...... ....Company."

ROUTE 5, SECTION 11, 93RD STREET TO 106TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 11.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with the City of New York for the construction of Section 11 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1..	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	52,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	22,700	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	3,600	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	81,300	....
3-a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	2,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....

---

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For buildings over twelve stories in height, per front foot................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	82,900	....
6.	For concrete masonry, in place, per cubic yard	....	39,170	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2.060	....
8.	For rubble stone masonry in place, per cubic yard	....	2,270	....
9.	For brick masonry, in place, per cubic yard	....	1,880	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,340	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	2,500	....
12.	For timber piles, in place, and prepared, per lineal foot......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,760	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	17,850	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	8,800	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	2,500	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,340	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,200	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,730	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	409,480	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds..........	....	1,480	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds..................	....	2,480	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	300	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	7	....
26.	For wire mesh, in place, per pound......	....	6,640	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,960	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,535	....
29.	For vault lights, in place, per square foot	....	4,420	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...................	....	5,570	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	9,470	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot...........	....	15,260	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	587	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	250	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,405	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	51	....
	Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*975	....
46.	For 3 feet 9 inches by 2 feet 6 inches, per lineal foot	....	*308	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc.,			

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	3,560	....
	(b) For horse railroads, per lineal foot of single track	....	†40	....
	PIPES IN STREETS—ITEMS *77 to* 126. *For Work and Material as Called for by Section* 71 *of the Specifications.* *Water and Gas Pipes—Items 77 to* 108. *Water Pipes—Items 77 to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	580	....
82.	For 12-inch water pipe, per lineal foot....	....	660	....
88.	For 48-inch water pipe, per lineal foot....	....	170	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	100	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,260	....
92.	For 8-inch gas pipe, per lineal foot......	....	930	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			......
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	29	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	7	....
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot................	....	38,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be

---

†Yard supply tracks for elevated railroad.

delivered at Room No................on the..................floor of the building No.....................in the Borough of...............................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in accordance to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of......................, 1910

ROUTE 5, SECTION 12, 106TH STREET TO 118TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 12.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, Copy of form of contract. Copy of form of bond.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of...; if a corporation, say "the (President or other officer duly authorized) of the.........
....Company."

To the Public Service Commission for the First District:

1. The undersigned‡ ....

.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 12 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	126,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	93,000	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	11,300	....
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	12,820	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	4,680	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,535	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,480	....
8.	For rubble stone masonry in place, per cubic yard	....	874	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard................	....	1,212	....

---

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,450	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	37,870	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,300	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic in place, per cubic yard	....	6,053	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,634	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	685	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	2,225	....
18.	For tunnel ducts, in place as required by Section 305 of the specifications, per duct foot	....	319,490	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	754	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	4,163	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	95	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	12,760	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,320	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,440	....
29.	For vault lights, in place, per square foot	....	8,900	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard..............	....	8,230	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	17,330	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	12,455	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot.......................	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	720	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	275	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,418	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	568	....
43.	For cast-iron sewer pipe (special casting) in place in the work, per ton of two thousand pounds	....	130	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,296	....
	Additional Sewer Construction—Items 73 and 74.			
73.	For six (6) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,000 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	......
74.	For eight (8) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,800 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	......
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required			

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
	and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	6,585	....
	(b) For horse railroads, per lineal foot of single track	....	310	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	440	....
82.	For 12-inch water pipe, per lineal foot....	....	1,480	....
84.	For 20-inch water pipe, per lineal foot....	....	190	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	830	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,530	....
92.	For 8-inch gas pipe, per lineal foot......	....	550	....
95.	For 16-inch gas pipe, per lineal foot......	....	130	....
96.	For 20-inch gas pipe, per lineal foot....	....	190	....
97.	For 24-inch gas pipe, per lineal foot......	....	100	....
99.	For 36-inch gas pipe, per lineal foot......	....	130	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	10	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot................	....	83,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..................on the................floor in the building No.....................in the Borough of.........................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of......................., 1910.

Route 5, Section 13, 118th Street to 129th Street.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 13.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†... do..

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say "the (President or other officer duly authorized) of the...Company."

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 13 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	79,320	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	51,360	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	2,400	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	207,460	....
3-a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	260	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	3,300	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	95	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	50,215	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	3,570	....
8.	For rubble stone masonry in place, per cubic yard	....	1,200	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	450	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	27,360	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	3,190	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	590	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	4,660	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	1,102	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	6,790	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	291,770	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	5,585	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,905	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	21,320	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,260	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	5,220	....
29.	For vault lights, in place, per square foot	....	3,960	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	8,940	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	14,730	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot...........	....	4,770	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot...........	....	820	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	410	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes in place in stations, each	....	480	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	245	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*514	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	*270	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds ....:.........	....	10	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*677	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,980	....
	(b) For horse railroads, per lineal foot of single track......................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,670	....
82.	For 12-inch water pipe, per lineal foot....	....	1,420	....
84.	For 20-inch water pipe, per lineal foot....	....	120	....
87.	For 36-inch water pipe, per lineal foot....	....	120	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction and under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
89.	For 3-inch gas pipe, per lineal foot......	....	170	....
90.	For 4-inch gas pipe, per lineal foot......	....	860	....
91.	For 6-inch gas pipe, per lineal foot......	....	3,430	....
92	For 8-inch gas pipe, per lineal foot......	....	2,370	....
93.	For 10-inch gas pipe, per lineal foot......	....	230	....
94.	For 12-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	53	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	13	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot......	....	210	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,200	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	6	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	63,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No......., on the........floor of the building No............, in the Borough of..........., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within

such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.................................., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..........day of.........., 1910.

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE H.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 14.)

Notice.—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡ .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "H" and to

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of...................................."; if a corporation, say "the (President or other officer duly authorized) of the......................... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co.. composed of A., B. C. D. etc." (giving the names of all partners).

furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
*35.	For tube tunnel under Harlem River as per type "H", per lineal foot of four-track tube complete	....	1,110	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	47,970	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	156,650	....
2a.	For earth excavation, both above and below mean high water; for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	24,480	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	850	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	38,600	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,140	....
8.	For rubble stone masonry in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard................	....	100	....
†12.	For timber piles, in place, and prepared, per lineal foot	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand ft B. M........	....	2M	....

---

*See note under Item 12 of Approaches.

†The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications...

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	44,830	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	310	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	7,380	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	179,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	6,200	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	690	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound......	....	16,340	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,330	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface, restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	7,095	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	‡50	....
47.	For 4 feet 2 inches by 2 feet 8 inches per lineal foot	....	†(60)	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet per lineal foot	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	100	....
82.	For 12-inch water pipe, per lineal foot	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot	....	2,000	....

---

‡Balance remaining after deducting portions of sewer included in railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the...........floor of the building No............in the Borough of...................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡..
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this...........day of................, 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of......................................"; if a corporation, say, "the (President or other officer duly authorized) of the..Company."

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE K.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5. Section 14.)

Notice—Sums of money must be written in words and also in figures, except in schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned* ....

do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "K," and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Type K—Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
†36.	For tube tunnel under Harlem River as per type "K," per lineal foot of four-track tube complete	....	1,080	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	49,510	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	156,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......	....	27,620	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.................	....	850	....

---

*The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

†See note under Item 12 of Approaches

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	39,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,130	....
8.	For rubble stone masonry, in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	100	....
‡12.	For timber piles, in place, and prepared, per lineal foot........................	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	45,000	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,420	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	180,420	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	6,620	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	580	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....

‡The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
25.	For miscellaneous iron castings other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound.......	....	17.380	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,460	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	7,355	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*50	....
47.	For 4 feet 2 inches by 2 feet 8 inches, per lineal foot	....	†(60)	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of 2,000 pounds	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot...................	....	2,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the...........floor of the building.................in the Borough of..................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.............................., 1910.

Affidavit of Verification

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of................, 1910.

ROUTE 5, SECTION 15, MOTT AVENUE TO 157TH STREET AND TO ALEXANDER AVENUE.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 15.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡... do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 15 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final, and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	106,630	....

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, a member of the firm of....................................."; if a corporation, say, "the (President or other officer duly authorized) of the.................. ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A., B. & Co., composed of A., B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	71,900	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	16,900	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	265,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	1,200	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	10,460	....
6.	For concrete masonry, in place, per cubic yard	....	78,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,060	....
8.	For rubble stone masonry, in place, per cubic yard	....	360	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	3,200	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	500	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	5,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	37,000	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	8,150	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	6,100	....
17.	For vitrified or cast-iron drain pipes, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	210	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	12,400	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	508,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	5,060	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,130	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	2,050	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	32	....
26.	For wire mesh, in place, per pound	....	25,660	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,440	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,130	....
29.	For vault lights, in place, per square foot	....	8,700	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	11,800	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	28,800	....
31.	For park surface restored (all classes), per square yard	....	3,180	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	25,000	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	650	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	325	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes, in place, in stations, each	....	820	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
37.	For 12-inch vitrified pipe sewer, per lineal foot	....	2,900	....
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*2,564	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	†(1,132)	....
40.	For 20-inch vitrified pipe sewer, per lineal foot	....	†400	....
41.	For 24-inch vitrified pipe sewer, per lineal foot	....	*102	....
42.	For cast-iron sewer pipe (straight pipe), in place, in the work, per ton of two thousand pounds	....	30	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	960	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
56.	For 5 feet, per lineal foot	....	430	....
	Sewers of Special Forms—Items 67 *to* 72.			
70.	For 7 feet by 12 feet, per lineal foot	....	320	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	4,730	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	8	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called For by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
79.	For 6-inch water pipe, per lineal foot.....	....	1,550	....
82.	For 12-inch water pipe, per lineal foot....	....	1,350	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes, in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	210	....
92.	For 8-inch gas pipe, per lineal foot.......	....	1,300	....
94.	For 12-inch gas pipe, per lineal foot......	....	180	....
95.	For 16-inch gas pipe, per lineal foot......	....	540	....
96.	For 20-inch gas pipe, per lineal foot......	....	540	....
97.	For 24-inch gas pipe, per lineal foot......	....	760	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	60	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	15	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits, in place, as provided in section 71a of the specifications, per duct foot..................	....	1,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No........, on the........floor of the building No..............in the Borough of..............., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.......................... 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this...........day of..........., 1910.

SECTION NO. 7, FROM EAST 40TH STREET, UNDER LEXINGTON AVENUE TO EAST 53D STREET; CONTRACTOR, CHARLES H. PECKWORTH; AMOUNT, $2,750,463.40.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, July 5, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New York and Charles H. Peckworth for the construction at the public expense of Section No. 7 of Route No. 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue from East 40th street to East 53d street, in the Borough of Manhattan.

The Public Service Commission for the First District further requests your honorable Board to consent to the said contract herewith transmitted and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of two million seven hundred and fifty thousand four hundred and sixty-three dollars and forty cents ($2,750,463.40); and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for contruction at the public expense of the said portion of such railroad.

And the Public Service Commission for the First District does hereby, pursuant to section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of two million seven hundred and fifty thousand four hundred and sixty-three dollars and forty cents ($2,750,463.40).

In witness whereof the Public Service Commission for the First District has

caused its official seal to be hereto affixed and attested by its Secretary and these presents to be signed by its Chairman this 5th day of July, 1911.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of....................................."; if a corporation, say, "the (President or other officer duly authorized) of the.................... ....Company."

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. WILLCOX, Chairman.

Attest: TRAVIS H. WHITNEY, Secretary.

After consideration of the bids on Section No. 7 of Route No. 5, the following resolution was duly moved and seconded:

Resolved, That this Commission hereby accepts the proposal of Charles H. Peckworth, dated October 27, 1910, for the construction of Section No. 7 of Route No. 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue, from East 40th street to East 53d street, in the Borough of Manhattan, the aggregate of the unit prices in the proposal amounting to two million seven hundred and fifty thousand four hundred and sixty-three dollars and forty cents ($2,750,463.40).

Resolved, That the Chairman and the Secretary be and they hereby are authorized on behalf of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment and upon compliance by the said Charles H. Peckworth with the requirements of the invitation to bidders attached to the said proposal.

Resolved, That the Chairman and Secretary be and they hereby are authorized and directed to request the Board of Estimate and Apportionment to consent to the said contract and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of two million seven hundred and fifty thousand four hundred and sixty-three dollars and forty cents ($2,750,463.40); and also to request the said Board of Estimate and Apportionment to direct the Comptroller to The City of New York to issue the bonds of said City at such a rate of interest as the Board of Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad; and also to make request for the authorization of bonds for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of two million seven hundred and fifty thousand four hundred and sixty-three dollars and forty cents ($2,750,463.40).

Resolved, That the Secretary give notice to the said Charles H. Peckworth that his proposal has been accepted and the contract awarded to him by this Commission, subject to its being consented to by the Board of Estimate and Apportionment, as required by law.

Resolved, That it be referred to Counsel to the Commission to inquire into the sufficiency of the sureties proposed to be given by the said Charles H. Peckworth, and in case the sureties named in the proposal of the said Charles H. Peckworth or any of them are not approved by the Commission, then to inquire into the sufficiency of any other or substitute sureties and in behalf of the Commission to do any such act as may be necessary and incidental to the furnishing of a proper bond.

Ayes—Commissioners Willcox, McCarroll, Maltbie, Eustis, Cram.

Nays—None.

Carried.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on July 5, 1911, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof I have hereunto subscribed my hand and affixed the seal of the Commission this 5th day of July, 1911.

TRAVIS H. WHITNEY, Secretary.

INVITATION TO CONTRACTORS.

Parts of Lexington Avenue Route.

The City of New York, acting by the Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct portions of a proposed rapid transit railroad in the Boroughs of Manhattan and The Bronx in The City of New York. Proposals may be submitted separately for any one or more of the separate sections of which such railroad consists as hereinafter stated.

The points within the City between which the said several parts are to run and the route or routes to be followed are briefly as follows:

Lexington Avenue Route.

(Route No. 5.)

Section 1 begins under Battery Park and extends thence under Battery place, Greenwich street, Trinity place and Church street to a point about 80 feet north of the centre line of Dey street; with a station in Battery Park, a station at Rector street and a station at Cortlandt and Dey streets.

Section 2 begins at the end of Section 1 and extends thence under Church street, private property, Vesey street, private property, and Broadway to a point under Broadway about 110 feet north of the centre line of Walker street; with a station at Murray and Warren streets.

Section 2-A begins at the end of Section 2 and extends thence under Broadway to a point about on the northerly building line of Howard street. This section includes the Canal street station and also the portion of the Canal street subway lying thereunder.

Section 3 begins at the end of Section 2-A and extends thence under Broadway to a point about midway between Houston and Bleecker streets; with a station at Prince street.

Section 4 begins at the end of Section 3 and extends thence under Broadway. private property and the several cross streets to a point under private property at the southerly line of East 14th street and Irving place; with a station at Astor place and East 8th street.

Section 5 begins at the end of Section 4 and extends thence under Irving place, Gramercy Park and Lexington avenue to a point about 140 feet north of the centre line of East 26th street; with a station at East 14th and East 15th streets and a station at East 23d street.

Section 6 begins at the end of Section 5 and extends thence under Lexington avenue to about the centre line of East 40th street; with a station at East 27th and East 28th streets and a station at East 34th street.

Section 7 begins at the end of Section 6 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 53d street; with a station at East 42d and 43d streets and a station at East 51st street.

Section 8 begins at the end of Section 7 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 67th street; with a station at East 58th and East 59th streets.

Section 9 begins at the end of Section 8 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 79th street; with a station at East 68th and East 69th streets and a station at East 77th street.

Section 10 begins at the end of Section 9 and extends thence under Lexington avenue to a point about 50 feet south of the centre line of East 93d street; with a station at East 86th street.

Section 11 begins at the end of Section 10 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 106th street; with a station at East 96th street and a station at East 102d and East 103d streets.

Section 12 begins at the end of Section 11 and extends thence under Lexington avenue to a point about 115 feet south of the centre line of East 118th street; with a station at East 110th and East 111th streets and a station at East 116th street.

Section 13 begins at the end of Section 12 and extends thence under Lexington avenue to a point about 120 feet south of the centre line of East 129th street; with a station at East 125th street.

Section 14 begins at the end of Section 13 and extends thence under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx, thence under private property and Park avenue to East 135th street. Here the line divides into two branches. The west branch begins at about the centre line of East 135th street and extends thence under private property to a point in private property a distance of about 655 feet from the centre line of East 135th street and about 50 feet west of the centre line of Mott avenue. The east branch extends under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park avenue.

Section 15. This section consists of two branches. The west branch begins at the end of the west branch of Section 14 and extends thence under East 138th street, private property and Mott avenue, Franz Sigel Park, private property and the several cross streets to a point in private property on the easterly side of River avenue about 120 feet south of the south line of East 157th street; with a station at East 138th street and East 149th street. (The portion of this section north of East 151st street is part of the River Avenue Route adopted by the Commission

on the 16th day of June, 1908.) The east branch begins at the end of the east branch of Section 14 and extends thence under Park avenue, private property, Canal Street West and East 138th street to a point in East 138th street about 150 feet easterly of the centre line of Alexander avenue, with a station between 3d and Alexander avenues.

The general plan of construction calls for a subsurface railroad having two tracks between Battery Park and Chambers street in Manhattan, and four tracks from Chambers street, in Manhattan, to 135th street and Park avenue in The Bronx, with the branches in The Bronx having in the main three tracks each. Turnouts, cross-overs, connections, sidings, loops, etc., will be constructed, all of which are more particularly indicated on the contract drawings.

For Section 14 two plans, designated Type H and Type K, respectively, have been prepared. The bidders for such section may submit a proposal for either or both of such types. After a comparison of the bids the Commission will determine which of such plans shall be adopted.

Bidders for the several sections will not be required to do the station finish work, nor to provide or lay tracks, ties or ballast.

The work of construction under the contract shall include the construction of all necessary sewers and connections, along the route of the railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning where necessary, of all buildings, monuments, surface, subsurface and elevated railroads and other structures, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and the temporary paving and maintenance of roadways.

The method of construction will be partly by trench excavation (under cover, unless otherwise specified in the form of contract or permitted by the Commission), and partly by tunnel, as set forth in the forms of contract.

Bidders must examine the form of contract, specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated, in the printed form of contract and in the contract drawings therein referred to. Printed copies of the forms of contract, bond and contractor's proposal, may be had on application at the office of the Commission, 154 Nassau street, Borough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders by payment of five dollars ($5) for the contract drawings for each section. The printed form of contract and the contract drawings are to be deemed a part of this invitation.

The Commission is informed by the Department of Docks and Ferries that docks and bulkheads along the East River may be available for dumping purposes. Information in regard thereto may be obtained by any intending bidder upon inquiry at the office of the Commission.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The Contractor for any section or sections will be required to complete the work as soon as practicable and within the time hereinafter prescribed for such completion.

Sealed bids or proposals will be received at the office of the Commission at 154 Nassau street, Borough of Manhattan, City of New York, until the 27th day of October, 1910, at twelve (12) o'clock noon, at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

A statement, based upon the estimate of the Engineer, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required for each section, is to be found in the schedules forming a part of the form of Contractor's Proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed: "*Proposal for Constructing Rapid Transit Railroad—Route* 5, *Section* —*," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a separate certified check for each section bid upon, drawn upon a national or state bank or trust company having its principal office in The City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for the amount herein specified for the section for which a proposal is made. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract or contracts will be made by the Commission as soon as practicable after the opening of the proposals.

Bidders whose proposals are otherwise satisfactory, in case the sureties named by them are not approved by the Commission, may substitute in their proposals the names of other sureties approved by the Commission, but such substitution must be made within five days after notice of disapproval, unless this period is extended by the Commission.

A bidder whose proposal shall be accepted shall, in person or by duly authorized representative, attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond for the amount hereinafter stated. The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, ten (10) per cent. of the amount certified from time to time to be due to the Contractor will be retained until the work is fully completed and accepted.

Schedule Indicating Time Allowed for Completion, the Amount of Bond and the Amount of Certified Check for Each of the Several Sections.

Route 5.	Time for Completion, Months.	Amount of Bond.	Amount of Certified Check.
Section 1	42	$500,000 00	$15,000 00
Section 2	42	600,000 00	15,000 00
Section 2A	42	250,000 00	10,000 00
Section 3	42	300,000 00	10,000 00
Section 4	36	300,000 00	10,000 00
Section 5	42	300,000 00	10,000 00
Section 6	42	350,000 00	10,000 00
Section 7	42	350,000 00	10,000 00
Section 8	42	300,000 00	10,000 00
Section 9	42	300,000 00	10,000 00
Section 10	42	300,000 00	10,000 00
Section 11	42	300,000 00	10,000 00
Section 12	42	400,000 00	12,500 00
Section 13	42	400,000 00	12,500 00
Section 14	42	500,000 00	15,000 00
Section 15	42	500,000 00	15,000 00

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case, the Commission will give notice thereof to such defaulting bidder, and the Commission may thereupon proceed to make another contract with such, if any, of the original bidders, as, in the opinion of the Commission, it will be to the best interests of the City to contract with, or may by new advertisement invite further

proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other Contractor over the amount of the bid of such defaulting bidder.

---

*To be filled in with the Section number for which the proposal is made.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, then this Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage by it sustained by reason of such failure, and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

The right to reject any and all bids is reserved.

New York, September 1, 1910.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by WILLIAM R. WILLCOX, Chairman; TRAVIS H. WHITNEY, Secretary.

RAPID TRANSIT RAILROAD.

Contract—Route No. 5. Section No. 7.

Agreement, made this............day of.................., 1910, between The City of New York. hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and Bradley Contracting Co., hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual covenants and agreements hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled, "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, the parties do hereby, the City for itself and its successors and the Contractor for itself, its successors and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

Article 1. The Contractor agrees to construct the part hereinafter described of a Rapid Transit Railroad, with its appurtenances. The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

Article 2. The Railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on May 12, 1905, and which, as modified, is known as the Lexington Avenue Route—or Route No. 5. The part to be constructed under this contract consists of Section No. 7.

Section 7—40th Street to 53d Street.

7. Beginning at a point at the centre line of 40th street, thence under Lexington avenue to a point about 50 feet north of the centre line of 53d street; with a station at East 42d and East 43d streets, and a station at East 51st street.

The precise location of the tracks, and the dimensions and other characteristics of the Railroad are more fully stated in the specifications forming a part of this contract, and in the detailed drawings and plans hereinafter mentioned.

Statutes Incorporated Herein.

Article 3. This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Article 4. Titles, headings, running headlines and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

Article 5. The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

(1) The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York, under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

(2) The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment, maintenance and operation of Rapid Transit Railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

(3) The word "Contractor" to mean the party of the second part to this contract, and its successors, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they;" the word "him" shall include "her," "it" and "them;" and the word "his" shall include "its," "her" and "their."

"Comptroller."

(4) The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

(5) The word "Engineer" to mean the Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

(6) The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, chapter 429 of the Laws of 1907, chapter 498 of the Laws of 1909, and chapters 205, 504, 505 and 506 of the Laws of 1910, or as heretofore otherwise amended.

"Railroad."

(7) The word "Railroad" to mean the part which the Contractor agrees by this contract to build, together with the station or stations to be built in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(8) The words "the Works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

(9) The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

(10) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice." "Direction."

(11) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor. Address May be Changed. Service Upon Contractor Personally.

Article 6. The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

Article 7. If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Subcontractors.

Article 8. The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of the proposed subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish, the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved of by the Commission.

II.—Work to be Done, Price, Etc.

Work to be Done.

Article 9. The Contractor shall do all the work and furnish all the materials, plant, tools and appliances necessary or proper for performing and completing the work of constructing the railroad in the manner and within the time hereinafter specified. He shall complete the railroad and do all the work and furnish all labor and materials in and about the construction of the railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, the said contract drawings may from time to time be altered or modified as hereinafter provided.

Construction Includes Sewer and Other Incidentals.

Article 10. In order to construct the railroad it will be necessary to take up and relay the sidewalk pavement or other surface material, and to lay and maintain a temporary pavement in the roadway, to protect, support and maintain during construction all buildings and other structures, including their foundations, and all elevated and surface and subsurface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins

and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces (except as herein provided in respect ot temporary pavements for roadways), adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface and subsurface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform for the prices herein agreed upon.

Prices.

Article 11. The City will pay and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the following prices, to wit:

SCHEDULE OF UNIT PRICES.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of three dollars and ten cents ($3.10) per cubic yard.

Item 2a. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of three dollars and ten cents ($3.10) per cubic yard.

Item 3. For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., the sum of four dollars and twenty-five cents ($4.25) per cubic yard.

Item 3a. For rock excavation, for sewers and pipes, including the disposal of it, etc., the sum of four dollars and forty cents ($4.40) per cubic yard.

Item 4. For underpinning buildings, including all incidental work and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of seventeen dollars ($17.00) per linear front foot of building underpinned.

(b) For buildings from seven (7) to twelve (12) stories in height the sum of thirty dollars ($30) per linear front foot of building underpinned.

Item 5. For tunnel excavation (except tunneling for sewers), including the disposal of material, timbering, etc., the sum of seven dollars and fifty cents ($7.50) per cubic yard.

Item 5a. For tunnel excavation for sewers, including the disposal of material, timbering, etc., the sum of ten dollars ($10.00) per cubic yard.

Item 6. For concrete masonry, in place, the sum of seven dollars and seventy-five cents ($7.75) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of seven dollars and seventy-five cents ($7.75) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of three dollars ($3.00) per cubic yard.

Item 9. For brick masonry, in place, the sum of ten dollars ($10.00) per cubic yard.

Item 10. For hollow terra cotta brick masonry, in place, the sum of nine dollars ($9.00) per cubic yard.

Item 11. For grout of Portland cement, the sum of three dollars ($3.00) per barrel of Portland cement used.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of one dollar and sixty cents ($1.60) per cubic yard.

Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of twenty-eight (28) cents per square yard.

(b) For two-ply, the sum of fifty (50) cents per square yard.

(c) For three-ply, the sum of sixty-five (65) cents per square yard.

(d) For four-ply, the sum of one dollar ($1.00) per square yard.

(e) For five-ply, the sum of one dollar and twenty cents ($1.20) per square yard.

(f) For six-ply, the sum of one dollar and fifty cents ($1.50) per square yard.

Item 16. for waterproofing, brick laid in asphaltic mastic, in place, the sum of eighteen dollars ($18) per cubic yard.

Item 17. For vitrified or cast iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of sixty (60) cents per linear foot.

(b) For ten (10) inch vitrified pipe, the sum of fifty (50) cents per linear foot.

(c) For eight (8) inch vitrified pipe, the sum of forty (40) cents per linear foot.

(d) For six (6) inch vitrified pipe, the sum of thirty-five (35) cents per linear foot.

(e) For four (4) inch vitrified pipe, the sum of thirty (30) cents per linear foot.

(g) For six (6) inch cast iron pipe, the sum of ninety (90) cents per linear foot.

(h) For four (4) inch cast iron pipe, the sum of fifty-five (55) cents per linear foot.

Item 18. For tunnel ducts in place as required by section 305 of the specifications, the sum of nine (9) cents per duct foot.

Item 19. For riveted steel, painted and erected, the sum of seventy-two dollars ($72.00) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of fifty-seven dollars ($57.00) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of sixty-four dollars ($64.00) per ton of two thousand pounds.

Item 24. For cast iron columns, erected and painted, the sum of fifty-six dollars ($56.00) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of seventy-five dollars ($75.00) per ton of two thousand pounds.

Item 26. For wire mesh, in place, the sum of ten (10) cents per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand-rail, in place, including expansion bolts, etc., the sum of seventy-five (75) cents per linear foot.

Item 28. For steel gratings, for ventilation, in place, including frames, etc., the sum of one dollar and forty cents ($1.40) per square foot.

Item 29. For vault lights, in place, the sum of one dollar and twenty cents ($1.20) per square foot.

Item 30. For street surface restored:

(a) For street surface, except roadways, the sum of one dollar and twenty cents ($1.20) per square yard.

(b) For temporary restoration and maintenance of roadways, the sum of sixty (60) cents per square yard.

Item 32. For wrought-iron or fibre electric conduits, in place, in stations, as follows:

(a) For three-fourths (¾) inch wrought-iron conduits, the sum of eight (8) cents per linear foot.

(b) For one and one-half (1½) inch wrought-iron conduits, the sum of fifteen (15) cents per linear foot.

(c) For two (2) inch wrought-iron conduits, the sum of twenty-five (25) cents per linear foot.

(d) For two (2) inch fibre conduit the sum of fifteen (15) cents per linear foot.

Item 33. For cast iron outlet boxes, in place, in stations, the sum of one dollar ($1.00) each.

Item 34. For six (6) inch cast iron pipe and fittings including specials "extra heavy" in place, in stations, the sum of eighty (80) cents per linear foot.

SEWERS—ITEMS 37 TO 74.

Vitrified and Cast Iron Pipe—Items 37 *to* 43.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of two dollars and thirty cents ($2.30) per linear foot.

Item 39. For eighteen (18) inch vitrified pipe sewer, the sum of two dollars and eighty cents ($2.80) per linear foot.

Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of six dollars ($6.00) per linear foot.

Item 47. For 4 feet by 2 feet 8 inches, the sum of seven dollars ($7.00) per linear foot.

Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.

Item 53. For 4 feet, the sum of seven dollars and fifty cents ($7.50) per linear foot.

Item 58. For 5 feet 6 inches, in tunnel, the sum of thirteen dollars ($13.00) per linear foot.

SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of one dollar ($1.00) per linear foot of single track.

Item 76. For the temporary and permanent support and maintenance of elevated railroad structures and all work incidental thereto, the sum of one thousand dollars ($1,000) per column.

PIPES IN STREETS—ITEMS 77 TO 126.

For Work and Material as Called for by Section 71 *of the Specifications.*

Water and Gas Pipes—Items 77 *to* 108.

Water Pipes—Items 77 *to* 88.

For water pipes, in place, as follows:

Item 78. For 4-inch water pipe, the sum of thirty-five (35) cents per linear foot.

Item 79. For 6-inch water pipe, the sum of forty (40) cents per linear foot.

Item 82. For 12-inch water pipe, the sum of seventy (70) cents per linear foot.

Item 84. For 20-inch water pipe, the sum of ninety (90) cents per linear foot.

Item 86. For 30-inch water pipe, the sum of one dollar and twenty cents ($1.20) per linear foot.

Gas Pipes—Items 89 *to* 99.

For gas pipes, in place, as follows:

Item 90. For 4-inch gas pipe, the sum of thirty (30) cents per linear foot.

Item 91. For 6-inch gas pipe, the sum of forty (40) cents per linear foot.

Item 92. For 8-inch gas pipe, the sum of sixty (60) cents per linear foot.

Item 94. For 12-inch gas pipe, the sum of seventy (70) cents per linear foot.

Item 95. For 16-inch gas pipe, the sum of eighty (80) cents per linear foot.

Item 96. For 20-inch gas pipe, the sum of ninety (90) cents per linear foot.

New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.

Item 100. For new cast iron hub and spigot straight pipe, delivered on the work, the sum of twenty-six dollars ($26.00) per ton of two thousand pounds.

Item 101. For new cast-iron hub and spigot pipe, special castings, delivered on the work, the sum of sixty-five dollars ($65.00) per ton of two thousand pounds.

Air Pipes—Items 121 *to* 124.

For air pipe, in place, as follows:

Item 121. For 6-inch air pipe, the sum of forty (40) cents per linear foot.

Item 122. For 8-inch air pipe, the sum of sixty (60) cents per linear foot.

New Air Pipe Delivered on the Work—Items 123 and 124.

Item 123. For new 6-inch air pipe, delivered on the work, the sum of one dollar ($1.00) per linear foot.

Item 124. For new 8-inch air pipe, delivered on the work, the sum of one dollar and fifty cents ($1.50) per linear foot.

Mail Tubes—Items 125 and 126.

Item 125. For 8-inch mail tube in place, the sum of sixty (60) cents per linear foot.

Item 126. For new 8-inch mail tube, delivered on the work, the sum of thirty dollars ($30.00) per ton of two thousand pounds.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)

Item 127. For electric ducts and conduits in place, as provided in Section 71-a of the Specifications, the sum of thirteen (13) cents per duct foot.

Work Not Susceptible of Classification.

Article 12. In case any work or materials shall be required to be done or furnished in or about the works—whether specified herein or indicated on the plans or not—which are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten per centum (10%) of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above, but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedule, except as otherwise herein expressly provided.

In case any work or material shall be required to be done or furnished under the provisions of this article, for cost plus ten per centum (10%), the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memorandum showing the work and materials actually paid for and the actual prices therefor.

Quantities Approximate Only.

Article 13. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the works under this contract; and neither the City, nor the Commission, nor any member of the Commission, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the works, be found even approximately correct in the construction of the works; and the Contractor shall make no claim for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article 14. The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings.

Plans May be Modified.

Article 15. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interest, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages.

or extra service other than is provided for items of the different classes of construction shown in the schedule, or where not susceptible of classification, then as otherwise provided herein.

Contractor Bound to Complete in Best Manner.

Article 16. The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices herein agreed upon.

Best Materials, Machinery, Tools, etc., to be Used.

Article 17. The Contractor shall furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, etc.

Article 18. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to, damages or an extension of time for completion of the works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

Article 19. No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any part of the works.

Inspection.

Article 20. The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

Article 21. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and all employees of the Commission bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Engineer to be Furnished Facilities.

Article 22. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article 23. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, nothwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work, or any part thereof, shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials.

Engineer's Determination to be Final and Conclusive Upon Contractor.

Article 24. To prevent disputes and litigations, the Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain.

Article 25. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the railroad. The Contractor shall afford to such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any differences or conflicts which may arise between the Contractor and other contractors of the Commission in regard to their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article 26. Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

III.—SPECIFICATIONS.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.
Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section 1. The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract. are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either in advance to show all details, or precisely to forecast all exigencies The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The Railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people [illegible] ork, in the best manner, according to the best rules and usages of railroad construction, and in the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

To Construct in Accordance With Specifications.

Section 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class of work where applicable or as provided in Article XII. of the contract.

Maps and Drawings.

Section 3. The contract plans referred to in the contract and specifications bear date June 15, 1910, are each countersigned by the Engineer, are stamped with the seal of the Commission, bear the general title:

For Section 7, Route No. 5.

Drawings as follows:

General Notes; Map and Profile; Nos. A9, B16, B17, B101, B102; C1 to C39, inclusive, C1008, C1010, C1011, C401, C1032.

Plans and Contract Drawings.

Section 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Where, however, changes are deemed necessary they may be ordered under Article XV. of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract drawings, but designated as supplementary drawings. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface and subsurface structures.

Supplementary Drawings May be Examined.

Section 6. These supplementary drawings, for each section of the work, can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue prints) of these drawings for one or more of the sections, for such aid, if any, as may be derived from them, on the payment of the cost of printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section 7. If, upon opening the streets, by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by the samples of the test borings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if any way such supplementary drawings be found erroneous, the Contractor shall take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications Not Exclusive.

Section 8. It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive.

Section 9. These specifications are grouped in subdivisions as follows:

1. Description of the Work. 2. General Clauses. 3. Manner of Prosecution and Maintenance of Traffic. 4. Street Railroad Tracks, Mains and other Surface or Subsurface Structures. 5. Excavation. 6. Tunneling. 7. Backfilling. 8. Piling and Timbering. 9. Cement. 10. Mortar. 11. Masonry. 12. Concrete. 13. Brick Masonry. 14. Stone Masonry. 15. Waterproofing. 16. Steel and Iron. 17. Painting. 18. Ducts and Conduits. 19. Drains and Pumps. 20. Sewers. 21. Requirements for Pipes. 22. Street Surface and Park Surface Restored. 23. Vault Lights, Gratings and Hand-rails.

1—Brief Description of the Work.

General Nature.

Section 10. The Rapid Transit Railroad which is hereinbefore described is to be an underground railroad or subway, the general details of construction and the location of the various tracks, junctions, grades, etc., being indicated more particularly on the contract drawings.

Stations to be Constructed.

Section 11. Stations are to be constructed at such places as are indicated on the plans, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidently with the completion of the Railroad.

Surface and Subsurface Structures.

Section 12. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Chambers and Gratings.

Section 13. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of necessary ventilating devices shall be built at the sides of the Railroad and in connection therewith. These chambers shall be generally of the form and dimensions as shown on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from the chambers, suitable air-ways, ducts or flues shall be constructed.

The chambers will be built at the places and as indicated on the plans.

Section 14. Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad.

Section 15. The chambers will be provided with suitable doors or openings, and with ladders reaching to the street for use as exits in case of emergency.

2—General Clauses.

Prevention of Water Percolation.

Section 16. It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section 17. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section 18. All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyances to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section 19. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system,

which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall fail so to prosecute his work that, in the judgment of the Engineer, it shall not be reasonablly probable that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section 20. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section 21. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the material needed for construction has been acquired and is available. Such permits are to be in such form and to cover such portions of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Section 22. Before any opening is made in the surface of a street. a copy of the permit issued by the Commission shall have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Notice Regarding Commencement of Work.

Section 23. Before commencing work on any part of the route, whether on the Railroad or on the sewers lying off the line of the Railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured.

Shafts and Dumping Platforms.

Section 24. Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., shall be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Ordinances and Regulation.

Section 25. In all operations connected with the Works, all ordinances of the City, and of the Board of Health. so far as they may be valid and operative with respect thereto, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, shall be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and Harbor of materials used in, or in connection with, the work.

Requirements of Borough President, etc., to be Observed.

Section 26. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Building and Water Permits; Shut-offs for Water Pipes, etc.

Section 27. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shalll bear the cost of the service of inspectors required by any municipal department or other public authority in or about the execution of the work other than the inspectors or the employees of the Commission. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same and

of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in section 70 of the specifications.

Storage on Cross Streets.

Section 29. No material of any nature shall be stored along the streets occupied by the Railroad in Manhattan or on 138th street, in The Bronx. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of such structural material as may be absolutely necessary to avoid delay in construction may be stored; such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

Material Stored.

Section 30. Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section 31. In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Access to Fire Hydrants.

Section 32. Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Work to be Cleared.

Section 33. At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Assistance to be Rendered to Owners of Buildings.

Section 34. Where access to any adjacent property is temporary cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost. tender every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Waste Material.

Section 35. Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section 36. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense, wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section 37. Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Advertisements Forbidden.

Section 38. The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

Barricades.

Section 39. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Detailed Drawings.

Section 40. The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

Section 41. The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work called for by said working or shop drawings shall be done until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

Lines and Grades.

Section 42. During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the Railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work. The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Notice, How Given.

Section 43. When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Imperfect Work.

Section 44. Any imperfect construction which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to be Replaced.

Section 45. All work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work at the Contractor's expense.

Condemned Materials to be Removed.

Section 46. If any material brought on the ground for use in the work or selected for the same shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials as may be directed by the Engineer.

Competent Men.

Section 47. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

3—MANNER OF PROSECUTION AND MAINTENANCE OF TRAFFIC.

Access to Buildings, etc.

Section 48. No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and, where streets are open suitable bridges shall be built and maintained, at the Contractor's expense, to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Wharves and Docks.

Section 50. For that portion of the route adjoining wharves and docks the work must be so prosecuted as to permit free access to neighboring wharves and docks.

Contiguous Contract Sections.

Section 50-a. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of ten feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Other Portions of the Route.

Section 51. Generally the Contractor will be permitted to conduct its work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section 52. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both in longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section 53. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work when the excavation is in trench the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption.

Street Intersections.

Section 61. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted must be kept at all times open to traffic for at least one-half the width of the cross roadway, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Close Observance of Above Requirements.

Section 62. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

Openings for Ventilation.

Section 63. Wherever the excavations are decked, where gas pipes are maintained in service or where gases are liable to accumulate, suitable openings shall be provided for proper ventilation, or the Contractor may maintain services by temporary mains above the street decking.

Temporary Pipes, etc.

Section 64. Temporary pipes, if laid above the street or sidewalk surfaces, shall be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

In General.

Section 65. In general, work will, as provided herein, be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of its contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

4—STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUBSURFACE STRUCTURES.

Notice to be Given.

Section 66. Notice is to be given by the Contractor to all companies and the proper City officials, owning or having charge of surface or subsurface structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

Section 67. In the rearrangement of subsurface structures requiring removal and relaying or reconstruction due to interference with the railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if, in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Reconstruction or Relaying, etc.

Section 68. Whenever it becomes necessary to cut, move, change, or reconstruct any surface or subsurface structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures.

Reasonable Dispatch.

Section 69. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, etc.

Section 70. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface and subsurface structures encountered during the prosecution of his work. All surface and subsurface structures and surfaces of whatever character along the line of the work shall be protected from injury, but should any injury occur the Contractor shall fully restore such surface or subsurface structures or surfaces to as good a condition as existed before the injury was done. All the above, including also all changes of surface or subsurface structures made by the Contractor for his own convenience in executing his work, shall be done at the Contractor's own expense and included in the prices stipulated in the schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section 71. Changes of water, gas, steam or other pipes made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such pipes and their appurtenances in other than the original position, will be paid for at the prices stipulated in Schedule Items 77 to 99, Items 102 to 106, Items 109 to 114, Items 121 to 122, and Item 125. These prices are per linear foot of pipe laid including all work, labor and material incidental to such laying, excepting that:

(1) If new pipes have to be provided and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100 and 101, Items 107 and 108, Items 115 to 120, Items 123 and 124, and Item 126, which prices are to cover the cost of the new pipes delivered on the work.

(2) If the pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restora-

tion of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), and for restoration of street surface, Item 30-A and B, but only to the net lines ordered by the Engineer for excavation for such pipe work.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section 71-a. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75-A), made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the price stipulated in Schedule Item 127. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place; of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work and material incidental to and necessary for the completed duct lines.

Surface and Elevated Railroads.

Section 72. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface, subsurface and elevated railroads along the line of or crossing the line of the work.

Surface Railroads.

Section 73. The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads (including steam railroads), including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor will be at the rates specified in the Schedule for electric railroad, Item 75-A, or for horse railroad, Item 75-B, which prices will include the cost of all work incidental thereto. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Elevated Railroads.

Section 74. The Contractor shall maintain and support both temporarily and permanently in a safe condition all elevated railroad structures. Payment therefor will be at the rate specified in Schedule Item 76, which price will include the cost of all incidental work, including the reconstruction and building where necessary of all column foundations and parts of column foundations lying without the net lines of the subway structure.

Subsurface Railroads.

Section 75. The Contractor shall support and maintain both temporarily and permanently in a safe condition all subsurface railroads and their appurtenances. Payment therefor shall be deemed included in the prices for excavation, Schedule Items 1, 2 and 3.

Facilities to be Given to Make Extensions.

Section 76. In the event of the owners or the City desiring to make any alteration or extension to their structures, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

Parks and Parkways, Trees, etc.

Section 77. In any park or parkway, or where any grass plots or trees exist along any street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree of the same kind as the tree removed, injured or destroyed, and not less than fifteen (15) feet in height and not less than three and one-half (3½) inches in diameter measured two feet above the surface of the ground, and in such position as the Commissioner of Parks shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants

removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

Section 78. In replanting trees and the replanting of grass plots the Contractor must be governed by the reasonable requirement of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be approved by such authorities and by the Commission.

Payments, How Made.

Section 79. Payment for all work covered by Sections 77 and 78 shall be included in the prices paid for Park or Street Surface Restored, Schedule Items 31 or 30.

5—EXCAVATION.

Width of Excavation.

Section 80. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the railroad, as shall be necessary in the opinion of the Engineer for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Depth of Trenches.

Section 81. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Sides to be Secured.

Section 82. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheeting.

Section 83. Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned.

Section 84. To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and shall safely and permanently underpin adjacent buildings. As part of this obligation the Contractor shall use such methods of construction or underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Payment For.

Section 86. Where underpinning of a building is necessary and the work is done as provided in Section 84, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4. The classification as to the number of stories has reference to the number of stories above the surface of the street.

Sheeting.

Section 87. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section 88. All timber used for sheeting, shoring, bracing, decking or other temporary purposes, shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of hard yellow pine, sound, straight and free from all shakes, and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

Vaults of Abutting Property.

Section 89. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section 102, but the restoration of all such walls or other parts of vaults within the ordered net lines of excavation will be paid for at the unit prices specified in the Schedule applicable to the several classes of work and material involved in such restoration.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be at the Contractor's own cost and expense.

Vaults Disturbed.

Section 90. Wherever vaults are broken through or otherwise disturbed, the Contractor shall, at his own cost and expense, erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Rock.

Section 91. Ledge rock in place, and boulders within the ordered line of excavation requiring blasting, will be considered as rock excavation.

Preparations for Rock Measurement.

Section 92. Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than 20 feet; and the engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Blasting.

Section 93. Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section 94. No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and it shall be kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

Near Pipes and Mains.

Section 95. Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

General Precautions in Blasting.

Section 96. In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Blasting.

Section 97. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides,

and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section 98. Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Carts to be Tight.

Section 99. All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Removed Expeditiously.

Section 100. Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the Harbor of New York.

When Excavated Material May be Taken by the City.

Section 101. If at any time during the course of construction the City shall desire for City purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section 102. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders requiring blasting.

Excavation in Trenches, How Measured.

Section 103. The net outside width of the railroad structure, as ordered and indicated on the plans, and the depth, also as ordered and as indicated on the plans, will govern as to width and depth in the measurements for payment for excavation. No deduction from the volume of excavation determined as above, will be made on account of basements or cellars in property acquired by the City for the construction of the railroad or on account of vault space or of spaces occupied by pipes and other subsurface structures.

No Allowance Outside of Ordered Net Lines.

Section 104. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines as above indicated, or in rock excavation, for irregularities of surface; and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the schedule.

Change of Street Grade.

Section 105. Where the contract drawings indicate that the grade of any street is to be raised the Contractor shall fill in the street to the changed grade as required and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section 106. Excavation shall be paid for at the price or prices given in Schedule Items 1 and 2 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section 107. The prices herein stipulated for excavation, Schedule Items 1, 2 and 3, are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance, support, etc., of all surface and subsurface structures of whatever nature, payment for the maintenance and support of which is not herein elsewhere specifically provided for.

6—TUNNELING.

How Lined.

Section 108. All tunnels shall be lined with steel or cast iron and concrete, or with concrete or brick masonry.

Where tunnels are lined with concrete or brick work without metal tubes, proper provisions shall be made for keeping the tunnels dry by the use of drains, and by other methods as elsewhere provided.

Packing.

Section 109. The space between the extrados of the arch or back of the sidewalls and the rock or other materials of excavation, shall be filled with concrete to a height of two feet above the spring line of the arch—above this concrete the space shall be filled with dry masonry packing. Similarly in the tunnel floor, if concrete is used, all loose muck shall, if directed by the Engineer, be removed to the solid rock and the space filled in with concrete up to the bottom line of the section ordered by the Engineer for tunnel excavation and concrete. All such concrete or other packing, being outside of the net section line for excavation as ordered by the Engineer, shall be at the sole expense of the Contractor.

Grout.

Section 110. After the tunnel lining and packing is in place, if required by the Engineer, a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part Portland cement, shall be pumped in under pressure, from time to time behind the masonry, so as to completely fill all the voids. Where tunnels are made by the use of a shield, similar grout shall be pumped in to completely fill the space left by the tail piece of the shield as soon as the shield is moved forward.

Payment for Grout.

Section 111. Where grout is ordered and used, it shall be paid for at the price herein provided, Schedule Item 11.

Lines for Excavation.

Section 112. The tunnel, at any place, is to be excavated to the line of the cross-section ordered by the Engineer for that place.

No Payment for Excavation Beyond Ordered Lines.

Section 113. All loose or shaky rock, whose fall or settlement might, in the judgment of the Engineer, produce an unequal or concentrated pressure on the masonry, shall be removed, and the space refilled with such class of masonry as the Engineer may require and as provided in Section 109, but no payment will be made for any excavation outside of the cross-section of the tunnel excavation ordered by the Engineer, as provided in Section 112.

Blasting.

Section 114. Drilling and blasting must be conducted with all possible care and in such a manner as not to shatter the roof and sides outside of the section lines, as ordered by the Engineer, nor endanger adjoining property.

Drains.

Section 115. All seams carrying water shall be carefully drained, as specified under the clauses relating to drainage.

Precautions Against Settlement.

Section 116. The Contractor must take every precaution, and such precautions as the Engineer may direct, by suitable shields, timbering, lagging or other supports, to prevent any settlement or movement of surrounding ground. Such timber as cannot be drawn without endangering the work or the ground above, shall be left in place and thoroughly surrounded by masonry and grouted.

Timbering.

Section 117. Timbering shall be used wherever necessary to support the materials or to secure the safety of the work or workmen. It will be at the sole expense of the Contractor and included in the contract price for tunnel excavation, Schedule Item 5. Wherever practicable it shall be removed before the concrete lining or concrete or other packing is placed.

Compressed Air.

Section 118. If for the work under the Harlem River and for the approaches thereto or elsewhere on the work a method is adopted requiring the use of compressed air, a plant must be provided of sufficient capacity to insure at all times and under all conditions an ample supply of air to prosecute the work with safety and dispatch, and proper air locks shall be built with safety locks, in addition to provide for the escape of workmen at time of accident.

Methods to be Approved.

Section 119. All methods of tunneling shall be subject to the approval of the Engineer, and be changed from time to time, if, in his judgment, the local conditions so require, and during construction approved methods of ventilation and lighting shall be used.

Tunneling, Payment For.

Section 120. The price per cubic yard, stipulated herein, Schedule Item 5, for tunnel excavation, is to cover all expense due to the presence of quicksand or other soft material, rotten rock, boulders, etc.; the cost of all pumping and bailing; of all timbering, and removal of same; of removing all excavated material; of all ventilation and lighting; and of all other work incident to the excavation of the tunnel. Any expense that may arise from loose or shaky rock or from falls or cave-ins, or from any unexpected obstacles, shall be borne by the Contractor. In earth sections the tunnel excavation must be large enough to permit building the masonry to the full required thickness, clear of such timbering and lagging as it may be necessary to build in. As a fair provision for such contingencies, it is assumed that the excavation will extend an average distance of one (1) foot outside the net line in the roof and sides and six (6) inches below the net line in the floor, and measurements for payment in tunnel excavation in earth will be made to those lines. It is distinctly understood, however, that no such allowances or any other allowance in tunnel excavation will be made in connection with timbering in tunnel excavation in rock.

Chambers, Drains, etc.

Section 121. Excavations for chambers, for skewbacks of arches, for sump holes, drains or for any other purpose in the tunnel, are to be measured according to the lines of the cross-sections determined by the Engineer, and paid for by the cubic yard as tunnel excavation.

Additional Enlargement.

Section 122. If after the excavation has been made of a certain size by direction of the Engineer, he is of opinion that the nature of the rock or other material is such that the form and dimensions of the masonry for which said excavation was intended must be increased, he may order an enlargement of the excavation for the purpose of building masonry of greater thickness, and the Contractor is to make such enlargement, which is to be measured according to the lines given by the Engineer, and paid for at the price per cubic yard stipulated in the schedule for tunnel excavation.

7—BACKFILLING.

Quality of Material. How Placed.

Section 128. The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six inches in depth.

Subsurface Structures. Frozen Material Not Permitted.

Section 129. Whenever pipes, sewers or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

Section 130. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, or shall be left in place, as may be directed by the Engineer, and the spaces left by the removal of such material carefully back-filled.

How Paid For.

Section 131. The cost of backfilling is to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2, 2-A, 3 and 3-A.

8—PILING AND TIMBERING.

Piles.

Section 132. If in the judgment of the Engineer the ground is of such a character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good sound pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

Piles Driven in Required Location.

Section 133. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section 134. The price herein stipulated to be paid, per linear foot of timber piles, Schedule Item 12, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section 135. If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Payment for Piles Other Than Timber Piles.

Section 136. Payment for piles other than timber piles will be as provided in Article XII. of the contract.

Grillage.

Section 137. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section 138. All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

Foundation Timber, Measurement and Payment.

Section 139. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his direction. Payment for foundation timber will be as provided in Schedule Item 13.

9—CEMENT.

Portland Cement.

Section 140. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks, to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to be Approved.

Section 141. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section 142. Cement shall be subject to inspection at the place of manufacture oı on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section 143. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section 144. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section 145. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO_3) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section 146. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 inch and 0.0024 inch in diameter.

Time of Setting.

Section 147. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section 148. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section 149. Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength, per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) pounds. The strength at twenty-eight (28) days shall not be less than that at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, shall have at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than two hundred (200) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Long-time Tests.

Section 150. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section 151. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section 152. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section 153. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

10—Mortar.

Cement and Sand. Mixing.

Section 154. All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

Section 155. For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; and for other classes of work, as directed by the Engineer; for grout, one (1) part of cement to one (1) part of fine sand.

11—Masonry.

Laid in Portland Cement.

Section 156. All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Section 157. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section 158. During freezing weather such masonry only shall be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor shall provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

Protected in Freezing Weather.

Section 159. During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Hot Weather.

Section 160. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section 161. Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Section 162. Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

Section 163. No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Defective Masonry.

Section 164. Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

Section 165. All stone before being laid shall be thoroughly cleaned and washed if so directed by the Engineer.

12—CONCRETE.

How Composed.

Section 166. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below.

Sand.

Section 167. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section 168. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section 169. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths (⅜) inch in diameter, and no pieces that will not pass through a hole one and one-half (1½) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths (⅜) and three-fourths (¾) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section 170. In concrete, where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may embed in the same pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly embedded. No two (2) stones shall be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

Section 171. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section 172. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone. Concrete for tube tunnels under the Harlem River will be as indicated on the plans.

Section 173. Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone.

Mixing by Machine.

Section 174. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used.

Mixing by Hand.

Section 175. When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet, as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Section 176. Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or spading, special tamping bars or tools being used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Section 177. Concrete to which waterproofing is to be applied shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Section 178. Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleaned.

Section 179. Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Section 180. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface shall be left rough to form a bond with the new work; and if deemed necessary by the Engineer, the points shall be reinforced with steel bars or dowls, to be furnished by the Contractor.

Joints Cleaned.

Section 181. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section 182. Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Section 183. No forms made of wood, and covered with iron will be permitted.

Section 184. The forms, if made of wood, shall be made of boards with tight joints, tongued and grooved, if required by the Engineer.

Precautions in Placing.

Section 185. Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

Section 186. The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before

placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Reinforcement Steel.

Section 187. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not to be Painted.

Section 188. The exposed faces of the concrete, excepting within station limits, shall be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids, as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

Impervious to Water.

Section 189. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Concrete, How Measured and Paid For.

Section 190. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centres, forms, etc., and removing the same, and all work incidental thereto.

Backing or Filling Concrete, Not Paid For.

Section 191. No concrete backing or filling outside of the ordered net lines of excavation will be paid for.

(For Concrete in Sewers, see Sewers.)

13—Brick Masonry.

Quality.

Section 192. Bricks for masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Section 193. Hollow terra cotta blocks or bricks may be required in station work, on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

Section 194. All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in stations) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

Section 195. The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

Section 196. All bricks of whatever nature shall be carefully culled and, if necessary, gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

Racked or Toothed.

Section 197. All unfinished work shall be racked or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Section 198. Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

Measurements and Payments.

Section 199. Brick masonry shall be measured to the lines indicated and shown on the plans and as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry, and Item 10 for hollow terra cotta brick or tile masonry; these prices are to include the cost of all scaffolding, forms, centres, etc., and the removal of the same, of all plastering and pointing, and of all other work incidental thereto.

14—STONE MASONRY.

Rubble Stone Masonry, Where Used.

Section 200. Rubble stone masonry will be used for supporting the street railroads over the roof of the Railroad where permanent supports are required, or at such other places as the Engineer may require.

How Laid.

Section 201. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Measurements and Payments.

Section 202. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8.

Other Masonry.

Section 203. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article 12 of the contract.

15—WATERPROOFING.

General Limits of Waterproofing.

Section 204. In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

Protecting Masonry.

Section 205. The protecting masonry shall be hollow terra cotta blocks, common brick or concrete, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section 206. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section 207. All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a treated woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

Section 208. The term "ply" as used in these specifications shall mean a layer of treated woven fabric, both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

Section 209. The number of plies of waterproofing on the sides at stations shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Section 210. Over the roof of the structure within station limits and over the tracks passing through the stations within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, or if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

Quality of Brick.

Section 211. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section 212. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Section 213. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section 214. Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Section 215. Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped, at the sole expense of the Contractor.

Quality of Pitch.

Section 216. Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Coal-tar Pitch.

Section 217. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25) per centum and not more than thirty-two (32) per centum of free carbon, which will soften at approximately 70° F., and melt at 100° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section 218. The asphalt used shall be the best grade of Bermudez, lake or other natural asphalt, subject to the approval of the Engineer, and shall comply with the following requirements:

The asphalt shall contain in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum

naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

Section 219. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

Section 220. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall then be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric for Waterproofing to Be Carefully Laid.

Section 221. The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken by overlapping, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Section 222. When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

Skilled Labor to Be Employed.

Section 223. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section 224. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

16—STEEL AND IRON.

Open Hearth Process.

Section 225. Steel shall be made in open hearth furnace.

Chemical and Physical Properties.

Section 226. The chemical and physical properties of finished material shall conform to the following limits:

Properties	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. "	.05%	.04%	.05%
Mn. "	.60%	.60%	.80%
Si. "	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000±(Min.)
Yield Point	55% Ult.	55% Ult.	35000±(Min.)
Elongation	$\frac{1500000}{\text{Ult. Str.}}$	$\frac{1500000}{\text{Ult. Str.}}$	20% in 2"
Fracture	Silky.	Silky.	Fine granular.
Cold Bend	180° flat.	180° flat.	120° (d.=3+.)

Yield Point.

Section 227. The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Section 228. Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel Castings.

Section 229. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section 230. The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for Bending.

Section 231. Specimens for bending shall be cut from the material as rolled.

Rivet Rods.

Section 232. Rivet rods shall be tested as rolled.

Steel Castings.

Section 233. For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

Ductility Elongation.

Section 234. In determining the ductility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

Section 235. For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the outside of the bar.

Section 236. For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

Section 237. The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

Section 238. At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

Section 239. A variation in weight of any piece of steel of two and one-half (2½) per centum from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Section 240. Each finished piece of steel shall be marked with the melt number, excepting that bars for reinforcing concrete shall be bundled and the melt number stamped on a metal tag attached to each bundle.

WROUGHT IRON.

Double Rolled.

Section 241. All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile, and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

Section 242. The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) lbs. per square inch, and a yield point of twenty-six thousand (26,000) lbs. per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True to Pattern Tests.

Section 243. All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attended the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) lbs. with a deflection of at least one-tenth (1/10) of an inch before rupture.

WORKMANSHIP.

Quality.

Section 244 All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods Deformed Sections.

Section 245. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods and Bars.

Section 246. Bent rods and bars and other bent material shall be bent hot and annealed, except that obtuse bends in material less than one square inch section may be made cold when permitted by the Engineer. The bending shall be done before the material is delivered on the work. Except in special cases, all bends shall be made uniformly to template.

Material Straightened in Shop.

Section 247. All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

Section 248. All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

Section 249. In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1/16) of an inch, the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the materials to be sub-punched and reamed, a punch of diameter three-sixteenths (3/16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1/16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

Section 250. All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Section 251. Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

Section 252. All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Section 253. Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall

be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Section 254. Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

Section 255. All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Section 256. Finished members shall be true and free from kinks, twists, or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Section 257. Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Section 258. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

Section 259. All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of the strain, so as to insure even bearings.

Stiffeners.

Section 260. Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Pins and Rollers.

Section 261. Pins and rollers shall be turned accurately to a gauge, and shall be of full size throughout. All pin-holes shall be bored truly and at right angles to the axes of the members to be connected, and shall fit the pins with a play not exceeding one thirty-second (1/32) of an inch.

Bed Plates Planed.

Section 262. Bed plates shall be planed. The bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Section 263. Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

Section 264. The weight of every piece and box shall be plainly marked upon it.

Inspection.

Section 265. Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

Section 266. The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

Section 267. The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Errors in Plans.

Section 268. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Chemical Analysis.

Section 269. Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analysis.

Section 270. Check analysis shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

Section 271. The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

Section 272. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section 273. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground and to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel and Cast Iron.

Section 274. The prices to be paid for steel and cast iron are as herein provided in Schedule Items 19, 20, 21, 22, 23 and 24. These prices include the cost of material delivered and erected in the work, with the exception of Item 23, the placing of which is provided for in Item 22. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings.

Section 275. For other castings, not included in the above and not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25.

WIRE MESH.

Wire Mesh.

Section 276. Wire mesh, of a character and weight to be approved by the Engineer, is to be furnished and placed around the lower flanges of the roof girders, and at other places as may be required, in order to hold the concrete in place.

Wire Mesh, Payment For.

Section 277. Wire mesh, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

17—PAINTING.

Section 278. All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

Section 279. All iron shall be scraped free from scale, and receive one coat of red lead paint as herein specified before leaving the shops. All surfaces which come

in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

Section 280. The red lead shall be strictly pure, and shall contain at least 80 per cent. of "true lead" ($Pb_3 O_4$). The color shall be a clean, pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk bolting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

Section 281. The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212° Fahr. on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60° Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section 282. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section 283. Red lead paint shall be mixed in the proportion of 500 pounds of red lead to 5½ gallons of boiled linseed oil, and 11 gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section 284. Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Section 285. Structural steel and rods to be embedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

Section 286. The second coat of paint shall be a carbon paint approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon.

Metal to be Cleaned After Erection.

Section 287. After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Section 288. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer.

Third Coat, When Applied.

Section 289. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after a completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable. The several field coats shall be sufficiently tinted to be distinctive.

Surfaces in Contact.

Section 290. Surfaces of exposed members inaccessible after erecting, shall be cleaned and painted before erecting.

Recesses, etc.

Section 291. All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

Section 292. All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth. if necessary.

Rainy or Freezing Weather.

Section 293. No painting in rainy or freezing weather or on wet surfaces will be permitted.

Payments.

Section 294. Payment for painting is included in the prices for steel and iron.

18—DUCTS AND CONDUITS.

Vitrified Ducts—Quality and Size.

Section 295. The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters liable to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to injure the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

Thickness of Ducts.

Section 296. The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

Ends Combed.

Section 297. The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

Section 298. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section 299. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section 300. The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick unbleached muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. The muslin shall be not less than 56 by 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

Mandrels.

Section 301. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section 302. The ducts shall be laid with dowel pins, at least two pins on the opposite sides horizontally.

Laid to Line.

Section 303. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To be Rodded.

Section 304. After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening.

If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half ($3\frac{1}{2}$) inches in all duct openings, the ducts shall be removed and relaid; all ducts, during construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section 305. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad.

Duct Manholes.

Section 306. Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the Railroad, as necessary, in accordance with the location of the duct lines. They may vary in form as may be necessary to accommodate the work to local conditions.

Duct Manholes at Stations.

Section 307. Duct manholes will be built at the ends of the stations to provide for the passage of the ducts under the station platforms, and if found necessary on account of the lengths of stations, additional manholes will be constructed under the platforms.

Section 308. At manholes the ducts will be laid to conform to the special conditions.

Section 309. In all work where iron pipe or fibre conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Section 310. The iron pipe or fibre conduits required by section 309 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

Section 311. All iron conduit used for any purpose in connection with the work herein shall be of the best grade (Galvaduct or equal), standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. It shall be delivered to the work in bundles of full length pipes, each length marked with the trade-mark of the manufacturer. It shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Installation.

Section 312. All conduit shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Watertight.

Section 313. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a watertight job.

Fibre Conduits, Quality, Laying, etc.

Section 314. All fibre conduit shall be made of impregnated fibre equal to that manufactured by the Fibre Conduit Company of Orangeburg, New York.

It shall be of uniform thickness, having walls of not less than one-quarter ($\frac{1}{4}$) inch and true cylindrical holes not less than two (2) inches in diameter. Lengths shall be not less than five (5) feet, and all ends shall be finished.

All joints shall be made by suitable finished sleeves fitting closely over the ends of the conduit and made watertight by making up with an approved bituminous compound.

After laying, all ducts shall provide a clear, true opening, free from obstructions and imperfections in any way injurious to the wires to be installed. All ducts shall be rodded and cleaned with an approved mandrel not less than one and three-quarter ($1\frac{3}{4}$) inches in diameter and eighteen (18) inches long.

Built in Concrete, etc.

Section 315. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Not Built in Concrete.

Section 316. Conduit not built into the structure shall be supported by approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section 317. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section 318. Measurements for the above iron pipe or fibre conduits shall be per linear foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section 319. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a watertight joint. Covers shall be of cast iron and watertight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet box furnished and placed in the work shall be as herein stipulated in Schedule Item 33.

19—Drains and Pumps.

Railroad to be Drained.

Section 320. Every part of the Railroad, the stations and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Section 321. Where the Railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the Railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the Railroad and draining into the sewers.

Subdrains.

Section 322. Along such parts of the work where the soil is not porous, or where the floor of the Railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Connections and Cross Drains.

Section 323. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the Railroad shall be as necessity demands and all as directed by the Engineer. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or. of cast iron. as directed.

Broken Stone for Drainage.

Section 324. On the roof of the Railroad and at other points as may be directed or indicated on the plans, broken stone shall be placed for the purposes of drainage.

Sumps.

Section 325. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the subdrains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section 326. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall each have a separate source of power, and shall be arranged to operate antomatically. Under this contract the Contractor will only furnish the pump or pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

The pumps shall be of the capacity required by the Engineer.

Capacity.

Section 327. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Delivery to Sewers, etc.

Section 328. The delivery of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains, Broken Stone, Pumps, etc.

Section 329. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Item 17. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever such as bends, tees, wyes, handholes, etc., and all materials necessary for jointing the same. Where back-pressure valves or gate valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Section 330. For broken stone for drainage, furnished and placed, Section 324, payment will be made as provided in Schedule Item 14.

Section 331. For pumps, Section 326, the Contractor will be paid as provided in Article XII. of the contract, not including, however, the pipe connections with sumps and sewers which pipe will be paid for as hereinbefore provided in Schedule Item 17.

Soil Pipes for Stations.

Section 332. It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in positions as shown on the plans and will be paid for as provided in Schedule Item 34.

20—SEWERS.

In Accordance With Plans and Specifications.

Section 333. All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades, at the depths, with the connections, and in the manner called for by these specifications and shown on the drawings.

Change of Location.

Section 334. If in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

Section 335. The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims for Damages.

Section 336. Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of

departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section 337. The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the Railroad, shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but shall be not less than three feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Section 338. Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section 339. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section 340. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle, enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin. In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations.

Section 341. Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary, and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form, with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Inspection of Grades.

Section 342. When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector, and no construction work shall be done in his absence.

Trenches to be Kept Free from Water.

Section 343. The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunneling.

Section 344. When tunneling for sewers shall be deemed advisable, it shall be done in a manner approved by the Engineer.

Gutter and Passageway to be Kept Open.

Section 345. At all times, gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Section 346. Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

Section 347. All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

Section 348. The Contractor shall provide for the flow of all sewers, drains and watercourses, interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Brick.

Section 349. In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two rings of bricks are required.

How Laid.

Section 350. The bricks shall be properly wet immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the points to be carefully struck on the inside.

Racked Back or Toothed.

Section 351. All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Back or Stone Inverts.

Section 352. All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used for the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

Section 353. The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed or withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling in of the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Section 354. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the

sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

Section 355. Spurs shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Section 356. Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used unless otherwise ordered by the Engineer. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water mains.

Under Station Platforms.

Section 357. Wherever the sewer passes under a station platform or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed, as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Section 358. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section 359. Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Section 360. Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place.

Invert to be Protected.

Section 361. The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Section 362. Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work.

Defective Work.

Section 363. If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

Section 364. No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

Section 365. In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers—Quality of Pipe.

Section 366. Pipe sewers shall be built of vitrified, salt glazed stoneware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

Section 367. The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

6-inch pipes shall be not less than ⅝ of an inch thick.
8-inch pipes shall be not less than ¾ of an inch thick.
10-inch pipes shall be not less than ⅞ of an inch thick.
12-inch pipes shall be not less than 1 inch thick.
15-inch pipes shall be not less than 1¼ inches thick.
18-inch pipes shall be not less than 1½ inches thick.
24-inch pipes shall be not less than 2 inches thick.
30-inch pipes shall be not less than 2½ inches thick.

Lengths.

Section 368. No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved and Split Pipes.

Section 369. When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length. Split pipes shall be used when found necessary.

Hub and Spigot Pipe.

Section 370. In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

Section 371. In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than five inches wide. Each collar must have an internal diameter of not less than one-half inch nor more than one and one-half inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Section 372. Pipes having spurs not less than six inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

Section 373. The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Section 374. Bends, siphons and special pipes shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

Section 375. All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be four inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

Section 376. When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

Section 377. When pipe without hubs is used, a collar or ring shall be used at joints and shall lap equally the ends of each abutting pipe. Such collar or ring shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

Spaces Between Pipes Uniform.

Section 378. The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be removed and the inside of the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Section 379. Sewers of iron pipe, of quality and laid in the manner described elsewhere in these specifications for the laying of water mains, shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Section 380. Wherever such pipes are laid under station platforms or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an airtight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Section 381. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

Section 382. All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

Section 383. All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid,

except as may be necessary in tamping the earth and refilling, will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

Section 384. The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

Section 385. The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Section 386. The masonry of manholes shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by selected bluestone slabs eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

Section 387. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Section 388. Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

Vitrified Bricks or Granite Blocks.

Section 389. The invert shall be built of vitrified brick, granite blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section 390. A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Section 391. Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Section 392. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section 393. A cast iron manhole head and cover of the quality specified for cast iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Section 394. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Section 395. Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds.
Street manhole cover, 135 to 150 pounds.
Sidewalk manhole head, 300 to 310 pounds.
Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

Section 396. When the pavement of the street is asphalt on wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Manhole Heads and Covers.

Section 397. All manholes in station platforms, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section 398. Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

Section 399. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section 400. Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

Section 401. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

Section 402. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section 403. Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-Iron Cover.

Section 404. A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

Section 405. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

Section 406. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

Joints.

Section 407. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so desired.

Iron Steps.

Section 408. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section 409. The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as in the opinion of the Engineer may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Section 410. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section 411. Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Mortar.

Section 412. All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

Section 413. All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

Section 414. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under the heading of "Street Surface and Park Surface Restored."

Permits for Connections.

Section 415. The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections. This is not to be construed, however, as permitting the introduction of storm water or sewerage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section 416. During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor, all at his own expense.

Payment for Sewers.

Section 417. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 37 to 74, both inclusive, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections 333 to 416 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavations.

Section 418. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), on the basis of size of trench stipulated in Sections 337 and 340, excepting where the sewer is built by tunneling, in which case tunnel excavation will be paid for at the price herein stipulated in Schedule Item 5-A (which prices shall include all the matters referred to in Sections 117 and 120), on the basis of the net ordered lines of the sewer. Payment for street surface restored shall be as provided in Schedule Items 30-A or B.

Steel Beams and Reinforcing Rods.

Section 419. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21.

Automatic Flush Tanks.

Section 420. Where automatic flush tanks are built as provided in Section 410 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section 421. Where waterproofing is required and placed in accordance with Section 411 of the specifications it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Siphons.

Section 422. Where inverted siphons passing under the subway structure are called for and built, they shall be considered as part of the regular subway construction from outside to outside of the sewer chambers or between points of departure from standard sewer construction, such limits being indicated on the plans; and payment for such siphons will be made in accordance with the various classes of work or material as are applicable thereto in the Schedule and at the prices therein stipulated for such items.

Cast-Iron Pipe Sewers, etc.

Section 424. All cast-iron pipe sewers wherever built, and the parts, within the limits of the Railroad, or as indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

House and Drainage Connections.

Section 425. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Sections 422 and 424 will be included in the prices for the several classes of work and material entering into such construction.

21—Requirements for Pipes.

Generally.

Section 426. Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

Section 427. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section 428. The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

Section 429. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots

to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth (1/8) of an inch, or whose dimensions differ by more than one-eighth (1/8) of an inch from those required.

Section 430. The pipes shall be designated by dimensions of the interior diameter

Section 431. Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

Section 432. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Section 433. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section 434. The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

60-inch pipes, 12,835 pounds each.
48-inch pipes, 8,270 pounds each.
42-inch pipes, 6,860 pounds each.
36-inch pipes, 5,305 pounds each.
30-inch pipes, 3,940 pounds each.
24-inch pipes, 2,660 pounds each.
20-inch pipes, 2,005 pounds each.
16-inch pipes, 1,475 pounds each.
12-inch pipes, 1,015 pounds each.
8-inch pipes, 580 pounds each.
6-inch pipes, 415 pounds each.

High Pressure Fire System.

Section 435. For high-pressure fire system standard spigots and grooves—The weights for straight pipes, with lugs, shall be approximately as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch	355	420	550	935
12-inch	615	745	1,000	1,765
16-inch	1,005	1,215	1,635	2,905
20-inch	1,475	1,795	2,425	4,320
24-inch	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Section 436. The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

Section 437. No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

Underweight.

Section 438. No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent., for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

Straight Pipe Cast Vertically.

Section 439. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Section 440. All the castings shall be made in such molding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

Section 441. All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and

the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

Section 442. The metal of which the castings are to be cast (which shall be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

Section 443. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings to be Clean.

Section 444. The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes shall be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Section 445. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section 446. The coal-tar pitch shall be made from coal tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Section 447. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and shall be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Section 448. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit, before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

Section 449. No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section 450. The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

Section 451. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the Inspector.

Blocking and Wedges.

Section 452. Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

Timber for Blocking.

Section 453. The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

Section 454. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and the hub shall be packed with clean, sound jute packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a watertight joint

Lead.

Section 455. The lead to be used shall be of the best quality of pure, soft lead. and in every respect suitable for the purpose.

Notice of Interruption to be Given.

Section 456. In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

Connections Interfered With.

Section 457. All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stopcocks, etc.

Section 458. Stopcocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Section 459. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

22—STREET SURFACE AND PARK SURFACE RESTORED.

Pavement to be Restored.

Section 460. As soon as the structure in any excavation or trench made within a street shall be completed and the trench backfilled, a temporary pavement shall be laid and maintained in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as, that existing previous to the commencement of construction; except that the Contractor will not be required to permanently restore the pavement of roadways between curb lines, but shall provide a temporary roadway pavement as follows:

Temporary Roadway Pavement.

Section 461. Upon the backfill, placed and compacted as provided under the clauses relating to backfilling, shall be placed a layer of sand, about an inch and

a half in thickness, on which shall be laid a pavement of granite blocks carefully laid and rammed to the required finished grade of the street surface. The end and side joints shall be thoroughly filled with sand, and shall not exceed ¾ of an inch in thickness. The granite blocks required for this temporary pavement, if found in or under the original pavement, shall be stored at a suitable place until required for use. In case granite blocks are not found in or under the original pavement, they may be obtained by the Contractor, free of cost, from the Bureau of Highways at the corporation yards.

The Contractor shall maintain the temporary roadway pavement thus laid for a period not exceeding six months from the time of its completion in any one block or street intersection. During this period the Contractor shall, without requiring previous notice, readjust or relay any portion of the pavement wherever and whenever a straight edge 3 feet long, laid in any direction, shows a depression of more than ¾ inch.

All the requirements as to street surface restored, including temporary roadway pavements, shall apply to the trenches for sewers, pipes or other subsurface structures along or off the line of the Railroad. Within the limits of private property to be taken by the City for the extension of Irving Place, these requirements will not apply.

Other Sidewalks May be Laid.

Section 462. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such property owner, duly acknowledged in writing by both parties.

In case any property owner desires to lay a sidewalk, or other surface covering within curb lines, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the restoration as hereinbefore provided.

Payment for Street Surface Restored.

Section 463. Payment for street surface restored will be made as provided in Schedule Item 30-A or B, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface.

Measurements.

Section 464. The measurement for payment for street surface restored will be to the net line of ordered excavation.

Outside of Net Lines.

Section 465. All other pavement outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as the result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally good as that existing previous to the commencement of construction.

Parks and Parkways.

Section 466. All parks and parkways including trees, shrubbery, etc., as elsewhere provided in this contract and the specifications, are to be restored to the satisfaction of the Department of Parks.

Measurement.

Section 467. Measurements for park surface restored are to be to the net lines of ordered excavation.

Payment For.

Section 468. Payment for park surface restored will be made at the price provided in Schedule Item 31.

Outside of Net Lines.

Section 469. Any damage done outside of the net lines of ordered excavation in connection with the construction of the work to park surfaces or growths, under the jurisdiction of the Department of Parks, shall be restored to the satisfaction of the said Department, and at the Contractor's own cost and expense.

23—VAULT LIGHTS, GRATINGS AND HAND-RAILS.

Vault Lights.

Section 470. The roofs of the stations, where under sidewalks, parks or parkways, shall, to as great an extent as possible, consist of vault light construction. These lights shall be made with lenses, not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame or panel in every ten (10), as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and if that fail, then the whole lot may be rejected. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

Section 471. The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and the price paid will be as provided in Schedule Item 29, which price shall include all material and work incidental to the completed vault lights in place.

Steel Gratings.

Section 472. Steel gratings shall be provided and placed over fan and other ventilating chambers, over stations and station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Measurement and Payment.

Section 473. Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work.

Galvanized Iron Pipe Hand-Rails.

Section 474. Galvanized iron pipe hand-rails will be placed in the Railroad over the benches containing the ducts. They shall be securely fastened to the wall of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of hand-rail in place in the work, complete, and at the price as stipulated in Schedule Item 27.

IV.—SECURITY TO BE FURNISHED BY CONTRACTOR.

Security by Contractor. Contractor's Bond.

Article 27. Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in the form annexed hereto, entitled, "Form of Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum specified in the Invitation to Contractors for the Section embraced in this contract. In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within ten days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such ten days or such further time as the Commission may grant, to substitute another and sufficient surety, then the contractor shall, for all the purposes of this contract be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor

the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

V.—Payments to Contractor.

Partial Payments.

Article 28. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with the contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand dollars ($10,000). The Engineer shall further include accepted structural iron and steel delivered on the site of the work, but not incorporated in the work, at the rate of forty dollars ($40) per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory, shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, and none of the Contractor's plant shall be included in partial estimates.

Not by Strict Measurement.

Article 29. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article 30. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify a voucher for ninety per cent. of the amount stated in such estimate or certificate to be the value of the work done and materials furnished, and the City shall within thirty (30) days after the date of the certification of such voucher by the Commission pay the same; provided, however, that the City may at all times reserve and retain from said partial payments, or any of them, in addition to the ten per cent. above mentioned to be retained and reserved, any sum or all sums which by the terms hereof, or of any law of the State of New York passed prior to the date hereof, it is or may be authorized to reserve or retain.

Final Estimate.

Article 31. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part, the Engineer shall so certify, in writing, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract. On the expiration of ninety (90) days after the acceptance by the Commission of the work herein agreed to be done by the Contractor, and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller, signed by the Engineer and the Commission, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the last-mentioned certificate, all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and also any sum or all such sums of money as by the terms hereof the City is or may be authorized to reserve or retain; provided, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work, should the said certificate be found, or known to be, inconsistent with the terms of this contract, or otherwise improperly given. All prior certificates upon which partial payments may have been

made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based.

Interest in Case of Delayed Payments.

Article 32. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article 30, in the case of partial payment, or Article 31, in the case of final payment, the City shall pay the Contractor interest on such amount at the rate of four and one-half (4½) per cent. per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. The term for which interest shall be paid shall be reckoned, in the case of a partial payment from the thirtieth day after the certification of such voucher by the Commission, and in the case of a final payment from the ninetieth day after the acceptance of the work by the Commission, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller for payment in the usual manner.

No Estoppel.

Article 33. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing the true and correct amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article 34. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article 35. The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the Commission, the City or of any person relating to or affecting the work, except only the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claims for Damage. Statements of Damage to be Filed With Engineer.

Article 36. If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Lien Law.

Article 37. If at any time before or within thirty days after the whole work agreed herein to be performed and all the labor and material herein agreed to be delivered have been performed or delivered or completed and accepted by the City any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller of the City any such notice as is described in the Lien Law, the City shall retain until the discharge thereof from moneys under its control so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice.

VI.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

Article 38. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures or to navigation; and the Contractor will at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures or to navigation. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part, or on the part of his agents, servants or employees and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage. Where the work is required to be done by tunneling the same admission and covenant shall also apply to the foundations, walls and other parts of buildings and to any railroad track or structure, subway, street, conduit, pipe, sewer or other structure or surface over the tunnel. But this admission and covenant shall not apply to the foundations, walls or other parts of buildings or any part thereof acquired by the City and which the Engineer may determine should be razed.

Traffic to be Maintained.

Article 39. The Contractor shall, during the performance of the work, safely maintain the traffic on streets, avenues, highways, parks, waters or other public places as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

Article 40. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor or May be Retained to Meet Claims.

Article 41. In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property as aforesaid, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned, the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard

to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or any part thereof, for a time not exceeding the time when such claims would be barred under the existing Statute of Limitations, as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article 42. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above.

Damage to Works During Construction.

Article 43. All risk of loss or damage to the works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VII.—CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE BY INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article 44. The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances.

Claims for Infringement of Patents.

Article 45. The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

Article 46. The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the works free of interference or right of interference; provided, however, that this covenant shall not apply to or include any damages for physical injuries to property referred to in chapter 6 hereof, whether or not compensation for such damages be awarded in a condemnation proceeding. If compensation for any such damages shall be included in an award in condemnation proceedings the Contractor shall, upon demand, promptly reimburse the City for any payments made by it for such purposes.

VIII.—TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article 47. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within forty-two (42) months from the date of the delivery of this contract.

Price to be Reduced for Delay.

Article 48. In the event of delay in completion of the works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due) there shall be deducted and retained by the City the following percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly from any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained by the City and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any subcontractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended by resolution of the Commission to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

Article 49. But no injunction, strike or interference of public authority shall be ground for such extension, except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel of the Commission or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Article 50. The time stipulated within which to complete the works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article 51. The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor

for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

Article 52. In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three (3) months from the date of the delivery of such notice the Commission shall allow the Contractor so much additional time wherein to perform and complete this contract on his part as the Engineer shall certify in writing to be just, but no allowance by way of damages shall be made for such delay.

Extensions Not Cumulative.

Article 53. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article 54. The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

IX.—Remedies in Case of Contractor's Default.

Article 55. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission may

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this article of the contract. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the bond. And

Or May Bring Suit.

(3) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

X.—MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article 56. No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and by the sureties upon his bond; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

Article 57. No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contractor Not to Assign, Sublet, Etc.

Article 58. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article 59. In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

Article 60. The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 36 of the Laws of 1909. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency, caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of the City, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any subcontractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void

and of no effect, unless the Contractor shall comply with the provisions of this section. In obedience to the requirements of section 14 of the Labor Law, it is further provided that if the provisions of the said section 14 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article 61. It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted or is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

Article 62. If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect and shall, upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Contractor has caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

By…………………, Chairman.

Attest:

…………………, Secretary.

State of New York, County of New York, ss.:

On the ………. day of ……………, 1910, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this ………… day of ………………, 1910, before me personally came ……………………………………………………………………… to me known and known to me to be the individual.. described in and who executed the foregoing instrument, and ..he.. duly acknowledged to me that ..he.. executed the same.

State of New York, County of New York, ss.:

On this ……… day of ……., 1910, before me personally appeared ……., to me known, who, being by me first duly sworn, did depose and say: That he resided in …………, in the State of……..; that he is …….. of ……., the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said Company, and that he signed his name thereto by like authority.

FORM OF CONTRACTOR'S BOND.

Route No. 5, Section No. 7.

Know All Men by These Presents, That …….. of ……., hereinafter called the Contractor, and ………… and …………, hereinafter called the Sureties, are

held and firmly bound unto The City of New York, hereinafter called the City, in the sum of .... dollars ($........), lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said sum of .... dollars ($........), and each of the said Sureties to be so held and bound only for a portion of said sum as follows:

The said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........).

In Witness Whereof, The Contractor and the Sureties have hereunto set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this .... day of ...., 1910.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a Rapid Transit Railroad known as Section 7 of Route 5, in ...., and extending from .... street to .... street, in the Borough of ...., in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof, now therefore.

The condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defense upon this Bond; that the Sureties shall not set up or have any defense upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

ROUTE 5, SECTION 1, BATTERY PARK TO DEY STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 1.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†...

.... do.. hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form

annexed hereto with The City of New York for the construction of section 1 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	160,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	143,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........	....	61,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	400	....
	(c) For buildings over twelve stories in height, per front foot..................	....	300	....
6.	For concrete masonry, in place, per cubic yard	....	70,500	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	10,300	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	770	....
12.	For timber piles, in place, and prepared, per lineal foot........................	....	5,000	....
13.	For timber foundations, placed and fastened, per thousand feet, B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,200	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	80,000	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	4,000	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 4-ply, per square foot...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	12,200	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,430	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,800	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	238,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	5,500	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	4,400	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	660	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	10	....
26.	For wire mesh in place, per pound........	....	10,600	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	9,000	....
29.	For vault lights, in place, per square foot..	....	4,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard..................	....	7,140	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	14,520	....
31.	For park surface restored (all classes), per square yard	....	20,800	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought iron, per lineal foot..........	....	18,900	....
	(b) For one and one-half inch (1½ inch) wrought iron, per lineal foot..........	....	3,230	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) for two inch (2 inch) wrought iron, per lineal foot	....	1,730	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	6,600	....
33.	For cast-iron outlet boxes in place, in stations, each	....	1,030	....
34.	For six inch (6 inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	140	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,250	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	720	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch per lineal foot	....	*2,168	....
47.	For 4 foot by 2 foot 8 inch per lineal foot.	....	*452	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,500	....
	(b) For horse railroads, per lineal foot of single track	....	240	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	120	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications. Water and Gas Pipes—Items* 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	760	....
82.	For 12-inch water pipe, per lineal foot	....	730	....
84.	For 20-inch water pipe, per lineal foot	....	680	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	280	....
91.	For 6-inch gas pipe, per lineal foot	....	610	....
96.	For 20-inch gas pipe, per lineal foot	....	90	....

*Balance remaining after deducting portion of sewer included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	25	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....
	Steam Pipes, Air Pipes and Mail Tubes—Items 109 *to* 126. *Steam Pipes—Items* 109 *to* 120.			
	For steam pipe, in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	30	....
113.	For 15-inch steam pipe, per lineal foot....	....	830	....
	New Steel-welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot....	....	30	....
119.	For 15-inch steam pipe, per lineal foot....	....	200	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	45,900	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named sureties, viz.:

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room .... on the ...... floor of the building .... in the Borough of ...., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District, is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am† the proposing contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2, DEY STREET TO WALKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	256,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	142,300	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	3,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..............	....	100	....
4.	*For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	1,300	....
	(c) For buildings over twelve stories in height, per front foot....................	....	750	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	23,300	....
6.	For concrete masonry in place, per cubic yard	....	84,800	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	6,220	....
8.	For rubble stone masonry in place, per cubic yard	....	3,250	....
9.	For brick masonry, in place, per cubic yard.	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	2,360	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	4,000	....
12.	For timber piles, in place, and prepared, per linear foot.......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B.M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	45,500	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	5,300	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,300	....

*Not to include underpinning, if any, in connection with construction of iron-lined tunnel portion.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	210	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,600	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	365,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds........	....	6,700	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,850	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,240	....
22.	For cast-iron tunnel lining, in place in the work, including the placing of bolts and washers and caulking of joints, etc., per ton of two thousand pounds........	....	5,300	....
23.	For steel bolts and washers for tunnel lining, per ton of two thousand pounds..	....	75	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	20	....
26.	For wire mesh, in place, per pound........	....	13,620	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per linear foot	....	9,130	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,310	....
29.	For vault lights, in place, per square foot..	....	2,900	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard........	....	8,065	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	18,695	....
31.	For park surface restored (all classes), per square yard	....	1,300	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought-iron, per lineal foot........	....	31,300	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two-inch (2 inch) wrought-iron, per lineal foot........................	....	830	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place in stations, each	....	1,160	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	380	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,760	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3-foot 6-inch by 2-foot 4-inch, per lineal foot	....	*185	....
47.	For 4-foot by 2-foot 8-inch, per lineal foot	....	(†95)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per linear foot of single track	....	6,750	....
	(b) For horse railroads, per linear foot of single track	....	770	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column.......................	....	6	....
	PIPES IN STREETS—ITEMS 77 TO 126			
	For Work and Material as Called for by Section 71 *of the Specifications. Water and Gas Pipes—Items* 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
82.	For 4-inch water pipe, per lineal foot.....	....	500	....
85.	For 24-inch water pipe, per lineal foot....	....	1,200	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
94.	For 12-inch gas pipe, per lineal foot......	....	500	....
95.	For 16-inch gas pipe, per lineal foot......	....	500	....
96.	For 20-inch gas pipe, per lineal foot......	....	500	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	50	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.........	....	13	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot....................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot....................	....	200	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot....................	....	180	....
106.	For 24-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-Iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds.............	....	15	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	5	....
	Steam Pipes—Items 109 *to* 120.			
	For steam pipe in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	500	....
	New Steel-Welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot.....	....	100	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot....................	....	31,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of six hundred thousand dollars ($600,000), in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room ...., on the .... floor of the building ...., in the Borough

of ...., in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the Contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

......................., being duly sworn, says: I am†......................

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2-A, WALKER STREET TO HOWARD STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2-A.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2-A of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	28,070	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	59,370	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	100	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot...............	....	318	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	70	....
	(c) For buildings over twelve stories in height, per front foot................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	18,180	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2,625	....
8.	For rubble stone masonry in place, per cubic yard	....	500	....
9.	For brick masonry, in place, per cubic yard	....	230	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	105	....
12.	For timber piles, in place, and prepared, per lineal foot.......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,070	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	20,625	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,255	....
	(d) For 4-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	120	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	3,255	....
17.	For vitrified or cast-iron drain pipe in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	800	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	625	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	45,025	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	2,275	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds..................	....	1,945	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	23	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole **heads and** covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	10	....
26.	For wire mesh, in place, per pound......	....	4,100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	900	....
29.	For vault lights, in place, per square foot.	....	2,025	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard..................	....	2,442	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	2,798	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot.........	....	9,640	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot.........	....	520	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot......................	....	260	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	578	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	770	....
	SEWERS—ITEMS 37 TO 74.			
	Egg-Shaped Brick or Concrete Sewers, Items 44 to 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	(†190)	....
47.	For 4 foot 0 inch by 2 foot 8 inch, per lineal foot	....	(†230)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete, Items 52 to 66.			
54.	For 4 foot 3 inch, per lineal foot	....	(†42)	....
55.	For 4 foot 9 inch, per lineal foot	....	(†208)	....
57.	For 5 foot 6 inch, per lineal foot	....	(†68)	....
	SURFACE AND SUBSURFACE STRUCTURES, ITEMS 75 AND 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	1,280	....
	(b) For horse railroads, per lineal foot of single track	....	100	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
82.	For 12-inch water pipe, per lineal foot	....	500	....
86.	For 30-inch water pipe, per lineal foot	....	400	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot	....	960	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	21	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds	....	6	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106. For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot..................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot............	....	490	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot............	....	150	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds..........	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	11,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of two hundred and fifty thousand dollars ($250,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No...............on the...............floor of the building No.........................in the Borough of.................................... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the

said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of.............., 1910.

ROUTE 5, SECTION 3, HOWARD STREET TO BLEECKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 3.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 3 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say "the (President or other officer duly authorized) of the............ ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	172,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	40,500	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	10,400	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	3,700	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,700	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	2,200	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,230	....
12.	For timber piles, in place, and prepared, per lineal foot.......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M............	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	16,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	3,700	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	3,060	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	1,460	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	207,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	2,560	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	780	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,530	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	10	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	6,400	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	3,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,200	....
29.	For vault lights, in place, per square foot	....	5,000	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein or thereon, per square yard	....	9,390	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	14,240	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,600	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot	....	1,000	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	520	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	....	....
33.	For cast-iron outlet boxes in place in stations, each	....	440	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	160	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,272	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	543	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	283	....
	Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	*554	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	484	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
53.	For 4 foot 0 inch, per lineal foot..........	....	1,145	....
54.	For 4 foot 3 inch, per lineal foot..........	....	*284	....
	SURFACE AND SUBSURFACE STRUCTURES. ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	5,470	....
	(b) For horse railroads, per lineal foot of single track.......................	....	720	....
	PIPES IN STREETS—ITEMS 77 *to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	600	....
86.	For 30-inch water pipe, per lineal foot..	....	800	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	32	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	8	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot...................	....	100	....

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
103.	For 12-inch high pressure fire system water pipe, per lineal foot....................	....	410	....
105.	For 20-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	10	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	42,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate

as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............ day of ...., 1910.

ROUTE 5, SECTION 4, BLEECKER STREET TO 14TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 4.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 4 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	181,400	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......................	....	14,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	25,700	....
4.	For underpinning buildings, including all incidental work and material per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	2,100	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,600	....
	(c) For buildings over twelve stories in height, per front foot..................	....	70	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	33,000	....
6.	For concrete masonry, in place, per cubic yard	....	46,400	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,200	....
8.	For rubble stone masonry in place, per cubic yard	....	900	....
9.	For brick masonry, in place, per cubic yard	....	1,300	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,700	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,700	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	9,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,320	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,330	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	4,420	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	437,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,940	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds..................	....	1,750	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,250	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	16	....
26.	For wire mesh, in place, per pound.......	....	6,030	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,140	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	6,200	....
29.	For vault lights, in place, per square foot..	....	900	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	6,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,470	....
31.	For park surface restored (all classes), per square yard	....	1,350	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	4,500	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	570	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot........................	....	310	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place in stations, each	....	242	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	25	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,134	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	170	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,978	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	228	....
	SURFACE AND SUBSURFACE STRUCTURES—*Items* 75 *and* 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	4,800	....
	(b) For horse railroads, per lineal foot of single track	....	150	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	530	....
82.	For 12-inch water pipe, per lineal foot....	....	1,560	....
87.	For 36-inch water pipe, per lineal foot....	....	2,300	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	130	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,800	....
92.	For 8-inch gas pipe, per lineal foot......	....	1,070	....
94.	For 12-inch gas pipe, per lineal foot......	....	270	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	130	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	40	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot..................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot.............	....	90	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot...................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds...........	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot...............	....	49,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City damages by it sustained by reason of such failure of

the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.................................., being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 5, 14TH STREET TO 26TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 5.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned*...
.... do..
hereby, in pursuance to the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 5 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quan-

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the........ .... Company."

*The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

tities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	106,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	17,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......	....	21,800	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	3,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings, less than seven stories in height, per front foot..............	....	400	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	75,300	....
6.	For concrete masonry, in place, per cubic yard	....	37,800	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	620	....
8.	For rubble stone masonry in place, per cubic yard	....	350	....
9.	For brick masonry, in place, per cubic yard.	....	3,100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard.................	....	1,400	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	2,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,500	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	5,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	5,600	....
	(d) For 4-ply, per square yard.........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	770	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,600	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	9,000	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	525,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	270	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,150	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	130	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes, in place, per ton of two thousand pounds	....	15	....
26.	For wire mesh, in place, per pound.......	....	1,400	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,100	....
28.	For steel gratings, for ventilation, in place, including frames, etc., per square foot..	....	8,300	....
29.	For vault lights, in place, per square foot.	....	5,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard................	....	5,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,050	....
31.	For park surface restored (all classes), per square yard.......	....	1,000	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought iron, per lineal foot..........	....	15,000	....
	(b) For one and one-half inch (1½ inch) wrought-iron per lineal foot...........	....	450	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two inch (2 inch) wrought-iron, per lineal foot........................	....	230	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	4,000	....
33.	For cast-iron outlet boxes in place in station, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	40	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,738	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	280	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	4	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,465	....
47.	For 4 foot by 2 foot 8 inch, per lineal foot	....	248	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	240	....
49.	For 4 foot 6 inch by 3 foot, per lineal foot	....	242	....
50.	For 4 feet 9 inches by 3 feet 2 inches per lineal foot	....	246	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
52.	For 3 feet 9 inches, per lineal foot........	....	264	....
60.	For 6 feet 0 inch, per lineal foot........	....	1,250	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	2,300	....
	(b) For horse railroads, per lineal foot of single track	....	200	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	460	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,490	....
92.	For 8-inch gas pipe, per lineal foot......	....	720	....
94.	For 12-inch gas pipe, per lineal foot......	....	580	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	20	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	5	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot...............	....	86,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:...

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No...............on the...................floor of the building No........................in the Borough of.............................. in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 6, 26TH STREET TO 40TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 6.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 6 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the.......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	73,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	500	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	37,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	116,200	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	27,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot...............	....	340	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	30	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation (except tunneling sewers), including disposal of material, timbering, etc., per cubic yard	....	85,000	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard	....	2,810	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	370	....
8.	For rubble stone masonry in place, per cubic yard	....	1,700	....
9.	For brick masonry, in place, per cubic yard	....	1,610	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	880	....
11.	For grout of Portland cement, per barrel of Portland cement used...........	....	2,500	....
13.	For timber foundations, placed and fastened, per thousand ft. B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,100	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	4,810	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	6,300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	650	....
17.	For vitrified or cast iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	5,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,200	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	555,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,770	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,710	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	610	....
24.	For cast iron columns erected and painted, per ton of two thousand pounds........	....	60	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	15	....
26.	For wire mesh, in place, per pound......	....	8,200	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,900	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,100	....
29.	For vault lights, in place, per square foot	....	6,400	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	3,170	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	19,630	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot...........	....	12,000	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	900	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	460	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
33.	For cast-iron outlet boxes in place in stations, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	60	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	720	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,055	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	390	....
47.	For 4 feet 0 inch by 2 feet 8 inches, per lineal foot	....	†(60)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
57.	For 5 feet 6 inches per lineal foot........	....	1,080	....
58.	For 5 feet 6 inches in tunnel, per lineal foot	....	1,280	....
60.	For 6 feet 0 inch per lineal foot..........	....	1,160	....
64.	For 8 feet 0 inch per lineal foot..........	....	420	....
66.	For 9 feet 6 inches per lineal foot........	....	1,935	....
	Sewers of Special Forms—Items 67 to 72.			
71.	For triple section, per lineal foot.........	....	102	....
72.	For 4 feet 0 inch wooden barrel, per lineal foot	....	336	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,800	....
	(b) For horse railroads, per lineal foot of single track	....	270	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	1,230	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	160	....
91.	For 6-inch gas pipe, per lineal foot	....	830	....
92.	For 8-inch gas pipe, per lineal foot	....	880	....
94.	For 12-inch gas pipe, per lineal foot	....	1,000	....
95.	For 16-inch gas pipe, per lineal foot	....	110	....
96.	For 20-inch gas pipe, per lineal foot	....	230	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	27	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds	....	7	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot	....	250	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	103,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the ...... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 7, 40TH STREET TO 53D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 7.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, copy of form of contract, copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 7 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the.......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	125,600	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	6,300	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	221,000	....
3a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	5,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	1,284	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	145	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation (except tunneling for sewers), including disposal of material, timbering, etc., per cubic yard.....	....	17,700	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard.....................	....	565	....
6.	For concrete masonry, in place, per cubic yard	....	54,200	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,240	....
8.	For rubble stone masonry in place, per cubic yard	....	3,200	....
9.	For brick masonry, in place, per cubic yard.	....	800	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	230	....
11.	For grout of Portland cement, per barrel of Portland cement used................	....	500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,250	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	5,535	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	10,840	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	1,020	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,500	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,570	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	609,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	4,390	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.........	....	380	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds.........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	18	....
26.	For wire mesh, in place, per pound........	....	5,900	....
27.	For one and one half inch (1½-inch.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	9,783	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot...	....	10,100	....
29.	For vault lights, in place, per square foot..	....	8,150	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	9,970	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	15,430	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	23,100	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	1,070	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot......................	....	575	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	6,610	....
33.	For cast-iron outlet boxes in place in stations, each	....	994	....
34.	For six-inch (6-inch) cast-iron pipe and fittings. including specials ("extra heavy"), in place in stations, per lineal foot	....	440	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,887	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,044	....
47.	For 4 feet 0 inches x 2 feet 8 inches per lineal foot	....	806	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
53.	For 4 feet 0 inches per lineal foot	....	300	....
58.	For 5 feet 6 inches, in tunnel, per lineal foot	....	257	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	7,192	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	4	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	800	....
82.	For 12-inch water pipe, per lineal foot	....	340	....
84.	For 20-inch water pipe, per lineal foot	....	700	....
86.	For 30-inch water pipe, per lineal foot	....	140	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	360	....
91.	For 6-inch gas pipe, per lineal foot	....	200	....
92.	For 8-inch gas pipe, per lineal foot	....	540	....
94.	For 12-inch gas pipe, per lineal foot	....	270	....
95.	For 16-inch gas pipe, per lineal foot	....	470	....
96.	For 20-inch gas pipe, per lineal foot	....	180	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	10	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	130	....
122.	For 8-inch air pipe, per lineal foot........	....	500	....
123.	For new 6-inch air pipe, delivered on the work, per lineal foot..................	....	30	....
124.	For new 8-inch air pipe delivered on the work, per lineal foot.................	....	100	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,900	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	10	....
	DUCTS IN STREETS			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	106,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of.......................... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any

longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially desposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 8, 53D STREET TO 67TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 8.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 8 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons, strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say " (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A, B. C, D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	172,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	24,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	54,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard............................	....	2,200	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	1,743	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	78,900	....
6.	For concrete masonry, in place, per cubic yard	....	45,100	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	430	....
8.	For rubble stone masonry in place, per cubic yard	....	3,750	....
9.	For brick masonry, in place, per cubic yard.	....	3,480	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard....................	....	470	....
11.	For grout of Portland cement, per barrel of Portland cement used................	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	3,050	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	7,600	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	430	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	11,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	569,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	1,417	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	760	....
21.	For steel rods and bars built in concrete per ton of two thousand pounds	....	1,305	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound	....	1,370	....
27.	For one and one half-inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,758	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,560	....
29.	For vault lights, in place, per square foot.	....	5,600	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	8,710	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	17,190	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,865	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	706	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	380	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place, in stations, each	....	494	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	90	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,596	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,758	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,863	....
47.	For 4 feet 0 inch by 2 feet 8 inches per lineal foot	....	342	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
59.	For 5 feet 9 inches per lineal foot........	....	268	....
60.	For 6 feet 0 inch per lineal foot........	....	260	....
63.	For 7 feet 0 inch per lineal foot........	....	870	....
65.	For 8 feet 9 inches per lineal foot........	....	520	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	7,624	....
	(b) For horse railroads, per lineal foot of single track.......................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	680	....
84.	For 20-inch water pipe, per lineal foot....	....	60	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot........	....	400	....
91.	For 6-inch gas pipe, per lineal foot....	....	800	....
92.	For 8-inch gas pipe, per lineal foot....	....	900	....
95.	For 16-inch gas pipe, per lineal foot....	....	60	....
96.	For 20-inch gas pipe, per lineal foot....	....	1,000	....
98.	For 30-inch gas pipe, per lineal foot....	....	250	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	36	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	9	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot........	....	550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
124.	For new 8-inch air pipe, delivered on the work, per lineal foot..................	....	100	....
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	121,000	....

(2) If this Proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am† .... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 9, 67TH STREET TO 79TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 9.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 9 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	101,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	18,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	48,400	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	500	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot...............	....	350	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	60,900	....
6.	For concrete masonry in place, per cubic yard	....	36,360	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard..	....	900	....
8.	For rubble stone masonry in place, per cubic yard	....	4,650	....
9.	For brick, masonry, in place, per cubic yard	....	2,740	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...................	....	525	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	4,860	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	7,950	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	824	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,490	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,540	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	491,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	994	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	695	....
21.	For steel rods and bars built in concrete,, per ton of two thousand pounds..	....	1,017	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds.........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound.......	....	1,300	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	5,580	....
29.	For vault lights, in place, per square foot	....	2,620	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	4,790	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,760	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot...........	....	14,045	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	478	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot	....	256	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	612	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	300	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,800	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	530	....
42.	For cast-iron sewer pipe (straight pipe), in place in the work, per ton of two thousand pounds	....	12	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,250	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
60.	For 6 feet 0 inch per lineal foot..........	....	1,200	....
62.	For 6 feet 6 inches per lineal foot........	....	240	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports (if required and added and not including additional vaults if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	6,196	....
	(b) For horse railroads, per lineal foot of single track........................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	330	....
82.	For 12-inch water pipe, per lineal foot....	....	1,050	....
83.	For 16-inch water pipe, per lineal feet....	....	100	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	330	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,200	....
92.	For 8-inch gas pipe, per lineal foot......	....	280	....
94.	For 12-inch gas pipe, per lineal foot......	....	290	....
96.	For 20-inch gas pipe, per lineal foot......	....	530	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	30	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	8	....
	Air Pipes—Items 121 to 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per linear foot......	....	410	....
124.	For new 8-inch air pipe, delivered on the work, per linear foot.................	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	170,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of three hundred thousand dollars ($300,000), in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No.........., on the...... floor of the building No............. in the Borough of.............., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that the Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission, to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal. except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.........................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am†

.... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of.................., 1910.

ROUTE 5, SECTION 10, 79TH STREET TO 93D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad

(Route 5, Section 10.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 10 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	44,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard............................	....	2,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	150,100	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	700	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..;" if a corporation, say, "the (President or other officer duly authorized) of the...Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	910	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	100	....
	(c) For buildings over twelve stories in height, per front foot.................	....	..	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	91,800	....
6.	For concrete masonry, in place, per cubic yard	....	49,540	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	260	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	1,940	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	65	....
11.	For grout of Portland cement, per barrel of Portland cement used...............	....	2,500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,000	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	5,820	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	4,820	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	595	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	4,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	..	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	10,300	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	576,300	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	2,655	....

Item	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,574	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	588	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds......	....	5	....
26.	For wire mesh, in place, per pound........	....	6,970	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	14,968	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot...	....	6,070	....
29.	For vault lights, in place, per square foot...	....	234	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard.....................	....	4,130	....
	(b) For temporary repavement and maintenance of roadways, per square yard....	....	8,340	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot...........	....	9,065	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	908	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	477	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	466	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	75	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,985	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	25	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
44.	For 3 feet 0 inch x 2 feet 0 inch per lineal foot	....	†(80)	....
45.	For 3 feet 6 inches x 2 feet 4 inches per lineal foot	....	95	....
47.	For 4 feet 0 inch x 2 feet 8 inches per lineal foot	....	†(210)	....
51.	For 5 feet 2 inches x 3 feet 5 inches per lineal foot	....	†(70)	....

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	3,900	....
	(b) For horse railroads, per lineal foot of single track	....	..	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot......	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	120	....
82.	For 12-inch water pipe, per lineal foot....	....	460	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	200	....
91.	For 6-inch gas pipe, per lineal foot........	....	540	....
92.	For 8-inch gas pipe, per lineal foot......	....	350	....
94.	For 12-inch gas pipe, per lineal foot......	....	100	....
96.	For 20-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipes—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	12	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	150	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot....................	....	19,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pur-

suant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No...........................on the........................ floor of the building No..in the Borough of ....in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of the City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.: ....
....being duly sworn, says: I am†...
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this......................day of...................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say "the (President or other officer duly authorized) of the...... ....Company."

ROUTE 5, SECTION 11, 93RD STREET TO 106TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 11.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..

.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with the City of New York for the construction of Section 11 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1..	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	52,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	22,700	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	3,600	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	81,300	....
3-a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	2,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....

---

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	82,900	....
6.	For concrete masonry, in place, per cubic yard	....	39,170	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2.060	....
8.	For rubble stone masonry in place, per cubic yard	....	2,270	....
9.	For brick masonry, in place, per cubic yard	....	1,880	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	1,340	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,500	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,760	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	17,850	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	8,800	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	2,500	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,340	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,200	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,730	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	409,480	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	1,480	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,480	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	300	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	7	....
26.	For wire mesh, in place, per pound......	....	6,640	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,960	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,535	....
29.	For vault lights, in place, per square foot	....	4,420	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard....................	....	5,570	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	9,470	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot............	....	15,260	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot...........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	587	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	250	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,405	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	51	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*975	....
46.	For 3 feet 9 inches by 2 feet 6 inches, per lineal foot	....	*308	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc.,			

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	3,560	....
	(b) For horse railroads, per lineal foot of single track	....	†40	....
	PIPES IN STREETS—ITEMS 77 *to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	580	....
82.	For 12-inch water pipe, per lineal foot....	....	660	....
88.	For 48-inch water pipe, per lineal foot....	....	170	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	100	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,260	....
92.	For 8-inch gas pipe, per lineal foot......	....	930	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			......
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	29	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.........	....	7	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot................	....	38,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be

---

†Yard supply tracks for elevated railroad.

delivered at Room No................on the..................floor of the building No....................in the Borough of..............................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in accordance to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:
....being duly sworn, says: I am†...
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.
Sworn to before me this..................day of......................, 1910

ROUTE 5, SECTION 12, 106TH STREET TO 118TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 12.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, Copy of form of contract. Copy of form of bond.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..; if a corporation, say "the (President or other officer duly authorized) of the.........
....Company."

To the Public Service Commission for the First District:

1. The undersigned‡ .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 12 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	126,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	93,000	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	11,300	....
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	12,820	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	4,680	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,535	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,480	....
8.	For rubble stone masonry in place, per cubic yard	....	874	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...............	....	1,212	....

---

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,450	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	37,870	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,300	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic in place, per cubic yard	....	6,053	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,634	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	685	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	2,225	....
18.	For tunnel ducts, in place as required by Section 305 of the specifications, per duct foot	....	319,490	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	754	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	4,163	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	95	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	12,760	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,320	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,440	....
29.	For vault lights, in place, per square foot	....	8,900	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard..............	....	8,230	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	17,330	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	12,455	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot.......................	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	720	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	275	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,418	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	568	....
43.	For cast-iron sewer pipe (special casting) in place in the work, per ton of two thousand pounds	....	130	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,296	....
	Additional Sewer Construction—Items 73 and 74.			
73.	For six (6) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,000 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	....
74.	For eight (8) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,800 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required			

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
	and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	6,585	....
	(b) For horse railroads, per lineal foot of single track	....	310	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	440	....
82.	For 12-inch water pipe, per lineal foot....	....	1,480	....
84.	For 20-inch water pipe, per lineal foot....	....	190	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	830	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,530	....
92.	For 8-inch gas pipe, per lineal foot......	....	550	....
95.	For 16-inch gas pipe, per lineal foot......	....	130	....
96.	For 20-inch gas pipe, per lineal foot.....	....	190	....
97.	For 24-inch gas pipe, per lineal foot......	....	100	....
99.	For 36-inch gas pipe, per lineal foot......	....	130	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	10	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot...............	....	83,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..................on the................floor in the building No.....................in the Borough of..........................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates. or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡..
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of........................, 1910.

ROUTE 5, SECTION 13, 118TH STREET TO 129TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 13.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..
....do..

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the..........
....Company."

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 13 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	79,320	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	51,360	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	2,400	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	207,460	....
3-a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	260	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	3,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	95	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	50,215	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	3,570	....
8.	For rubble stone masonry in place, per cubic yard	....	1,200	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	450	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.......	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	27,360	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	3,190	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	590	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	4,660	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	1,102	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	6,790	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	291,770	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds........	....	5,585	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,905	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.......	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound......	....	21,320	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,260	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,220	....
29.	For vault lights, in place, per square foot	....	3,960	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard..............	....	8,940	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,730	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot...........	....	4,770	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot...........	....	820	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	410	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes in place in stations, each	....	480	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	245	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*514	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	*270	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	10	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*677	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,980	....
	(b) For horse railroads, per lineal foot of single track.......................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108. *Water Pipes—Items 77 to 88.*			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,670	....
82.	For 12-inch water pipe, per lineal foot....	....	1,420	....
84.	For 20-inch water pipe, per lineal foot....	....	120	....
87.	For 36-inch water pipe, per lineal foot....	....	120	....

*Balance remaining after deducting portion of sewer included in Railroad construction and under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
89.	For 3-inch gas pipe, per lineal foot......	....	170	....
90.	For 4-inch gas pipe, per lineal foot......	....	860	....
91.	For 6-inch gas pipe, per lineal foot......	....	3,430	....
92	For 8-inch gas pipe, per lineal foot......	....	2,370	....
93.	For 10-inch gas pipe, per lineal foot......	....	230	....
94.	For 12-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	53	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	13	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot......	....	210	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,200	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	6	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	63,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No......., on the........floor of the building No............, in the Borough of............, in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within

such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the................................., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..........day of.........., 1910.

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE H.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 14.)

Notice.—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡ .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "H" and to

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of....................................."; if a corporation, say "the (President or other officer duly authorized) of the.......................... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co.. composed of A., B. C. D. etc." (giving the names of all partners).

furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
*35.	For tube tunnel under Harlem River as per type "H", per lineal foot of four-track tube complete	....	1,110	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard............................	....	47,970	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	156,650	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	24,480	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	850	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	38,600	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,140	....
8.	For rubble stone masonry in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard................	....	100	....
†12.	For timber piles, in place, and prepared, per lineal foot	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand ft B. M........	....	2M	....

---

*See note under Item 12 of Approaches.

†The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications...

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	44,830	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	310	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	7,380	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	179,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	6,200	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	690	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound......	....	16,340	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,330	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface, restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	7,095	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	‡50	....
47.	For 4 feet 2 inches by 2 feet 8 inches per lineal foot	....	†(60)	....
	Sewers of Special Forms—Items 67 *to* 72.			
70.	For 7 feet by 12 feet per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot.....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot................	....	2,000	....

‡Balance remaining after deducting portions of sewer included in railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the............floor of the building No............in the Borough of...................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.............................., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this.............day of................, 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say, "the (President or other officer duly authorized) of the.................... ....Company."

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE K.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5. Section 14.)

Notice—Sums of money must be written in words and also in figures, except in schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned* .... do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "K," and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Type K—Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
†36.	For tube tunnel under Harlem River as per type "K," per lineal foot of four-track tube complete	....	1,080	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	49,510	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	156,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......	....	27,620	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.................	....	850	....

---

*The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

†See note under Item 12 of Approaches

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	39,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,130	....
8.	For rubble stone masonry, in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	100	....
‡12.	For timber piles, in place, and prepared, per lineal foot........................	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	45,000	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,420	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	180,420	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	6,620	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	580	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....

‡The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
25.	For miscellaneous iron castings other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound.......	....	17.380	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,460	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	7,355	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*50	....
47.	For 4 feet 2 inches by 2 feet 8 inches, per lineal foot	....	†(60)	......
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.........................	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of 2,000 pounds	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot....................	....	2,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the...........floor of the building.................in the Borough of..................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..............................., 1910.

Affidavit of Verification

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of................., 1910.

ROUTE 5, SECTION 15, MOTT AVENUE TO 157TH STREET AND TO ALEXANDER AVENUE.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 15.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..

do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 15 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final, and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........................	....	106,630	....

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, a member of the firm of..................................."; if a corporation, say, "the (President or other officer duly authorized) of the..Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A., B. & Co., composed of A., B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	71,900	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	16,900	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........	....	265,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	1,200	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	10,460	....
6.	For concrete masonry, in place, per cubic yard	....	78,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,060	....
8.	For rubble stone masonry, in place, per cubic yard	....	360	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...................	....	3,200	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	500	....
12.	For timber piles, in place, and prepared, per lineal foot........................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.......	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	5,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	37,400	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	8,150	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	6,100	....
17.	For vitrified or cast-iron drain pipes, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	210	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	12,400	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	508,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	5,060	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,130	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.......	....	2,050	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	32	....
26.	For wire mesh, in place, per pound.......	....	25,660	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,440	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	8,130	....
29.	For vault lights, in place, per square foot	....	8,700	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard....................	....	11,800	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	28,800	....
31.	For park surface restored (all classes), per square yard......................	....	3,180	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	25,000	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	650	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot......................	....	325	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes, in place, in stations, each	....	820	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
37.	For 12-inch vitrified pipe sewer, per lineal foot	....	2,900	....
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*2,564	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	†(1,132)	....
40.	For 20-inch vitrified pipe sewer, per lineal foot	....	†400	....
41.	For 24-inch vitrified pipe sewer, per lineal foot	....	*102	....
42.	For cast-iron sewer pipe (straight pipe), in place, in the work, per ton of two thousand pounds	....	30	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	960	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
56.	For 5 feet, per lineal foot	....	430	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot	....	320	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	4,730	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	8	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called For by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
79.	For 6-inch water pipe, per lineal foot.....	....	1,550	....
82.	For 12-inch water pipe, per lineal foot....	....	1,350	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes, in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	210	....
92.	For 8-inch gas pipe, per lineal foot.......	....	1,300	....
94.	For 12-inch gas pipe, per lineal foot......	....	180	....
95.	For 16-inch gas pipe, per lineal foot......	....	540	....
96.	For 20-inch gas pipe, per lineal foot......	....	540	....
97.	For 24-inch gas pipe, per lineal foot......	....	760	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	60	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	15	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits, in place, as provided in section 71a of the specifications, per duct foot..................	....	1,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No........, on the.......floor of the building No..............in the Borough of................, in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................ 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of............, 1910.

SECTION 8. FROM EAST 53D STREET, UNDER LEXINGTON AVENUE TO EAST 67TH STREET. CONTRACTOR: THE BRADLEY CONTRACTING COMPANY. AMOUNT, $3,369,484.20.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, July 5, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New York and Bradley Contracting Company for the construction at the public expense of Section 8 of Route 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue, from East 53d street to East 67th street, in the Borough of Manhattan.

The Public Service Commission for the First District further requests your honorable Board to consent to the said contract herewith transmitted and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of three million three hundred and sixty-nine thousand four hundred and eighty-four dollars and twenty cents ($3,369,484.20); and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad.

And the Public Service Commission for the First District does hereby, pursuant to section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of three million three hundred and sixty-nine thousand four hundred and eighty-four dollars and twenty cents ($3,369,484.20).

In witness whereof the Public Service Commission for the First District has

caused its official seal to be hereto affixed and attested by its Secretary and these presents to be signed by its Chairman this 5th day of July, 1911.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say, "the (President or other officer duly authorized) of the...Company."

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. WILLCOX, Chairman. [SEAL]

Attest: TRAVIS H. WHITNEY, Secretary.

Route 5, Section 8.

After consideration of the bids on Section 8 of Route 5, the following resolution was duly moved and seconded:

Resolved, That this Commission hereby accepts the proposal of Bradley Contracting Company, dated October 27, 1910, for the construction of Section 8 of Route 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad, which extends under Lexington avenue, from East 53d street to East 67th street, in the Borough of Manhattan, the aggregate of the unit prices in the proposal amounting to three million and three hundred and sixty-nine thousand four hundred and eighty-four dollars and twenty cents ($3,369,484.20).

Resolved, That the Chairman and the Secretary be and they hereby are authorized on behalf of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment and upon compliance by the said Bradley Contracting Company with the requirements of the invitation to bidders attached to the said proposal.

Resolved, That the Chairman and Secretary be and they hereby are authorized and directed to request the Board of Estimate and Apportionment to consent to the said contract and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit: The sum of three million three hundred and sixty-nine thousand four hundred and eighty-four dollars and twenty cents ($3,369,484.20); and also to request the said Board of Estimate and Apportionment to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Board of Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad; and also to make request for the authorization of bonds for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit: The sum of three million three hundred and sixty-nine thousand four hundred and eighty-four dollars and twenty cents ($3,369,484.20).

Resolved, That the Secretary give notice to the said Bradley Contracting Company that its proposal has been accepted and the contract awarded to it by this Commission, subject to its being consented to by the Board of Estimate and Apportionment as required by law.

Resolved, That it be referred to Counsel to the Commission to inquire into the sufficiency of the sureties proposed to be given by the said Bradley Contracting Company, and in case the sureties named in the proposal of the said Bradley Contracting Company, or any of them, are not approved by the Commission, then to inquire into the sufficiency of any other or substitute sureties and in behalf of the Commission to do any such act as may be necessary and incidental to the furnishing of a proper bond.

Ayes—Commissioners Willcox, McCarroll, Maltbie, Eustis, Cram.

Nays—None.

Carried.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on July 5, 1911, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission this 5th day of July, 1911.

[SEAL] TRAVIS H. WHITNEY, Secretary.

INVITATION TO CONTRACTORS.

Parts of Lexington Avenue Route.

The City of New York, acting by the Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct portions of a proposed rapid transit railroad in the Boroughs of Manhattan and The Bronx in The City of New York. Proposals may be submitted separately for any one or more of the separate sections of which such railroad consists as hereinafter stated.

The points within the City between which the said several parts are to run and the route or routes to be followed are briefly as follows:

Lexington Avenue Route.

(Route No. 5.)

Section 1 begins under Battery Park and extends thence under Battery place, Greenwich street, Trinity place and Church street to a point about 80 feet north of the centre line of Dey street; with a station in Battery Park, a station at Rector street and a station at Cortlandt and Dey streets.

Section 2 begins at the end of Section 1 and extends thence under Church street, private property, Vesey street, private property, and Broadway to a point under Broadway about 110 feet north of the centre line of Walker street; with a station at Murray and Warren streets.

Section 2-A begins at the end of Section 2 and extends thence under Broadway to a point about on the northerly building line of Howard street. This section includes the Canal street station and also the portion of the Canal street subway lying thereunder.

Section 3 begins at the end of Section 2-A and extends thence under Broadway to a point about midway between Houston and Bleecker streets; with a station at Prince street.

Section 4 begins at the end of Section 3 and extends thence under Broadway, private property and the several cross streets to a point under private property at the southerly line of East 14th street and Irving place; with a station at Astor place and East 8th street.

Section 5 begins at the end of Section 4 and extends thence under Irving place, Gramercy Park and Lexington avenue to a point about 140 feet north of the centre line of East 26th street; with a station at East 14th and East 15th streets and a station at East 23d street.

Section 6 begins at the end of Section 5 and extends thence under Lexington avenue to about the centre line of East 40th street; with a station at East 27th and East 28th streets and a station at East 34th street.

Section 7 begins at the end of Section 6 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 53d street; with a station at East 42d and 43d streets and a station at East 51st street.

Section 8 begins at the end of Section 7 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 67th street; with a station at East 58th and East 59th streets.

Section 9 begins at the end of Section 8 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 79th street; with a station at East 68th and East 69th streets and a station at East 77th street.

Section 10 begins at the end of Section 9 and extends thence under Lexington avenue to a point about 50 feet south of the centre line of East 93d street; with a station at East 86th street.

Section 11 begins at the end of Section 10 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 106th street; with a station at East 96th street and a station at East 102d and East 103d streets.

Section 12 begins at the end of Section 11 and extends thence under Lexington avenue to a point about 115 feet south of the centre line of East 118th street; with a station at East 110th and East 111th streets and a station at East 116th street.

Section 13 begins at the end of Section 12 and extends thence under Lexington avenue to a point about 120 feet south of the centre line of East 129th street; with a station at East 125th street.

Section 14 begins at the end of Section 13 and extends thence under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx, thence under private property and Park avenue to East 135th street. Here the line divides into two branches. The west branch begins at about the centre line of East 135th street and extends thence under private property to a point in private property a distance of about 655 feet from the centre line of East 135th street and about 50 feet west of the centre line of Mott avenue. The east branch extends under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park avenue.

Section 15. This section consists of two branches. The west branch begins at the end of the west branch of Section 14 and extends thence under East 138th street, private property and Mott avenue, Franz Sigel Park, private property and the several cross streets to a point in private property on the easterly side of River avenue about 120 feet south of the south line of East 157th street; with a station at East 138th street and East 149th street. (The portion of this section north of East 151st street is part of the River Avenue Route adopted by the Commission

on the 16th day of June, 1908.) The east branch begins at the end of the east branch of Section 14 and extends thence under Park avenue, private property, Canal Street West and East 138th street to a point in East 138th street about 150 feet easterly of the centre line of Alexander avenue, with a station between 3d and Alexander avenues.

The general plan of construction calls for a subsurface railroad having two tracks between Battery Park and Chambers street in Manhattan, and four tracks from Chambers street, in Manhattan, to 135th street and Park avenue, in the Bronx, with the branches in The Bronx having in the main three tracks each. Turnouts, cross-overs, connections, sidings, loops, etc., will be constructed, all of which are more particularly indicated on the contract drawings.

For Section 14 two plans, designated Type H and Type K, respectively, have been prepared. The bidders for such section may submit a proposal for either or both of such types. After a comparison of the bids the Commission will determine which of such plans shall be adopted.

Bidders for the several sections will not be required to do the station finish work, nor to provide or lay tracks, ties or ballast.

The work of construction under the contract shall include the construction of all necessary sewers and connections, along the route of the railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning where necessary, of all buildings, monuments, surface, subsurface and elevated railroads and other structures, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and the temporary paving and maintenance of roadways.

The method of construction will be partly by trench excavation (under cover, unless otherwise specified in the form of contract or permitted by the Commission), and partly by tunnel, as set forth in the forms of contract.

Bidders must examine the form of contract, specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated, in the printed form of contract and in the contract drawings therein referred to. Printed copies of the forms of contract, bond and contractor's proposal, may be had on application at the office of the Commission, 154 Nassau street, Borough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders by payment of five dollars ($5) for the contract drawings for each section. The printed form of contract and the contract drawings are to be deemed a part of this invitation.

The Commission is informed by the Department of Docks and Ferries that docks and bulkheads along the East River may be available for dumping purposes. Information in regard thereto may be obtained by any intending bidder upon inquiry at the office of the Commission.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The Contractor for any section or sections will be required to complete the work as soon as practicable and within the time hereinafter prescribed for such completion.

Sealed bids or proposals will be received at the office of the Commission at 154 Nassau street, Borough of Manhattan, City of New York, until the 27th day of October, 1910, at twelve (12) o'clock noon, at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

A statement, based upon the estimate of the Engineer, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required for each section, is to be found in the schedules forming a part of the form of Contractor's Proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed: "*Proposal for Constructing Rapid Transit Railroad—Route* 5, *Section* —*," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a separate certified check for each section bid upon, drawn upon a national or state bank or trust company having its principal office in The City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for the amount herein specified for the section for which a proposal is made. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract or contracts will be made by the Commission as soon as practicable after the opening of the proposals.

Bidders whose proposals are otherwise satisfactory, in case the sureties named by them are not approved by the Commission, may substitute in their proposals the names of other sureties approved by the Commission, but such substitution must be made within five days after notice of disapproval, unless this period is extended by the Commission.

A bidder whose proposal shall be accepted shall, in person or by duly authorized representative, attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond for the amount hereinafter stated. The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, ten (10) per cent. of the amount certified from time to time to be due to the Contractor will be retained until the work is fully completed and accepted.

Schedule Indicating Time Allowed for Completion, the Amount of Bond and the Amount of Certified Check for Each of the Several Sections.

Route 5.	Time for Completion, Months.	Amount of Bond.	Amount of Certified Check.
Section 1	42	$500,000 00	$15,000 00
Section 2	42	600.000 00	15,000 00
Section 2A	42	250,000 00	10,000 00
Section 3	42	300,000 00	10,000 00
Section 4	36	300,000 00	10,000 00
Section 5	42	300,000 00	10,000 00
Section 6	42	350,000 00	10,000 00
Section 7	42	350,000 00	10,000 00
Section 8	42	300,000 00	10,000 00
Section 9	42	300.000 00	10,000 00
Section 10	42	300,000 00	10.000 00
Section 11	42	300,000 00	10,000 00
Section 12	42	400,000 00	12,500 00
Section 13	42	400,000 00	12,500 00
Section 14	42	500,000 00	15,000 00
Section 15	42	500,000 00	15,000 00

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case, the Commission will give notice thereof to such defaulting bidder, and the Commission may thereupon proceed to make another contract with such, if any, of the original bidders, as, in the opinion of the Commission, it will be to the best interests of the City to contract with, or may by new advertisement invite further

proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other Contractor over the amount of the bid of such defaulting bidder.

---

*To be filled in with the Section number for which the proposal is made.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, then this Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage by it sustained by reason of such failure, and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

The right to reject any and all bids is reserved.

New York, September 1, 1910.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by WILLIAM R. WILLCOX, Chairman; TRAVIS H. WHITNEY, Secretary.

RAPID TRANSIT RAILROAD.

Contract, Route 5, *Section* 8.

Agreement, made this............day of................., 1910, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and Bradley Contracting Company of.......... hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual covenants and agreements hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled, "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, the parties do hereby, the City for itself and its successors and the Contractor for itself, its successors and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

Article 1. The Contractor agrees to construct the part hereinafter described of a Rapid Transit Railroad, with its appurtenances. The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

Article 2. The Railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on May 12, 1905, and which, as modified, is known as the Lexington Avenue Route—or Route No. 5. The part to be constructed under this contract consists of

Section 8—53*d Street to* 67*th Street.*

8. Beginning at a point 50 feet north of the centre line of 53d street, thence under Lexington avenue to a point about 50 feet north of the centre line of 67th street; with a station at East 58th and 59th streets.

The precise location of the tracks, and the dimensions and other characteristics of the Railroad are more fully stated in the specifications forming a part of this contract, and in the detailed drawings and plans hereinafter mentioned.

Statutes Incorporated Herein.

Article 3. This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Article 4. Titles, headings, running headlines and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

Article 5. The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

(1) The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York, under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

(2) The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment, maintenance and operation of Rapid Transit Railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

(3) The word "Contractor" to mean the party of the second part to this contract, and its successors, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they;" the word "him" shall include "her," "it" and "them;" and the word "his" shall include "its," "her" and "their."

"Comptroller."

(4) The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

(5) The word "Engineer" to mean the Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

(6) The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, chapter 429 of the Laws of 1907, chapter 498 of the Laws of 1909, and chapters 205, 504, 505 and 506 of the Laws of 1910, or as heretofore otherwise amended.

"Railroad."

(7) The word "Railroad" to mean the part which the Contractor agrees by this contract to build, together with the station or stations to be built in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(8) The words "the Works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

(9) The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

(10) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice." "Direction."

(11) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor. Address May be Changed. Service Upon Contractor Personally.

Article 6. The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

Article 7. If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Subcontractors.

Article 8. The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of the proposed subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish, the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved by the Commission.

II.—WORK TO BE DONE, PRICE, ETC.

Work to be Done.

Article 9. The Contractor shall do all the work and furnish all the materials, plants, tools and appliances necessary or proper for performing and completing the work of constructing the railroad in the manner and within the time hereinafter specified. He shall complete the railroad and do all the work and furnish all labor and materials in and about the construction of the railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, the said contract drawings may from time to time be altered or modified as hereinafter provided.

Construction Includes Sewer and Other Incidentals.

Article 10. In order to construct the railroad it will be necessary to take up and relay the sidewalk pavement or other surface material, and to lay and maintain a temporary pavement in the roadway, to protect, support and maintain during construction all buildings and other structures, including their foundations, and all elevated and surface and subsurface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins

and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces (except as herein provided in respect of temporary pavements for roadways), adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface and subsurface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform for the prices herein agreed upon.

Prices.

Article 11. The City will pay and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the following prices, to wit:

Schedule of Unit Prices.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of three dollars and fifty cents ($3.50) per cubic yard.

Item 2-A. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of five dollars ($5.00) per cubic yard.

Item 3. For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., the sum of five dollars ($5) per cubic yard.

Item 3-A. For rock excavation for sewers and pipes, including the disposal of it, etc., the sum of six dollars ($6) per cubic yard.

Item 4. For underpinning buildings, including all incidental work and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of one hundred and fifty dollars ($150) per linear front foot of building underpinned.

Item 5. For tunnel excavation (except tunneling for sewers), including the disposal of material, timbering, etc., the sum of nine dollars ($9) per cubic yard.

Item 6. For concrete masonry, in place, the sum of ten dollars ($10) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eight dollars ($8) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of eight dollars ($8) per cubic yard.

Item 9. For brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 10. For hollow terra cotta brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 11. For grout of Portland cement, the sum of four dollars and fifty cents ($4.50) per barrel of Portland cement used.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of two dollars and fifty cents ($2.50) per cubic yard.

Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of seventy-five cents ($0.75) per square yard.

(b) For two-ply, the sum of one dollar ($1) per square yard.

(c) For three-ply, the sum of one dollar and fifty cents ($1.50) per square yard.

(d) For four-ply, the sum of one dollar and seventy-five cents ($1.75) per square yard.

(e) For five-ply, the sum of two dollars ($2) per square yard.

(f) For six-ply, the sum of two dollars and fifty cents ($2.50) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of thirty dollars ($30) per cubic yard.

Item 17. For vitrified or cast iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of one dollar and seventy-five cents ($1.75) per linear foot.

(b) For ten (10) inch vitrified pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(c) For eight (8) inch vitrified pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

(d) For six (6) inch vitrified pipe, the sum of one dollar ($1) per linear foot.

(e) For four (4) inch vitrified pipe, the sum of seventy-five cents ($0.75) per linear foot.

(g) For six (6) inch cast iron pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(h) For four (4) inch cast iron pipe, the sum of one dollar ($1) per linear foot.

Item 18. For tunnel ducts in place as required by section 305 of the specifications, the sum of fifteen cents ($0.15) per duct foot.

Item 19—For riveted steel, painted and erected, the sum of ninety dollars ($90) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of eighty dollars ($80) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of sixty-five dollars ($65) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of seventy-five dollars ($75) per ton of two thousand pounds.

Item 26. For wire mesh, in place, the sum of ten cents ($0.10) per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand-rail, in place, including expansion bolts, etc., the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 28. For steel gratings, for ventilation, in place, including frames, etc., the sum of two dollars and fifty cents ($2.50) per square foot.

Item 29. For vault lights, in place, the sum of two dollars ($2) per square foot.

Item 30. For street surface restored:

(a) For street surface, except roadways, the sum of three dollars ($3) per square yard.

(b) For temporary restoration and maintenance of roadways, the sum of three dollars ($3) per square yard.

Item 32. For wrought-iron or fibre electric conduits, in place, in stations as follows:

(a) For three-fourths (¾) inch wrought-iron conduits, the sum of thirty cents ($0.30) per linear foot.

(b) For one and one-half (1½) inch wrought-iron conduits the sum of forty-five cents ($0.45) per linear foot.

(c) For two (2) inch wrought-iron conduits the sum of sixty cents ($0.60) per linear foot.

(d) For two (2) inch fibre conduits the sum of fifteen cents ($0.15) per linear foot.

Item 33. For cast-iron outlet boxes, in place, in stations, the sum of one dollar ($1) each.

Item 34. For six (6) inch cast-iron pipe and fittings including specials "extra heavy" in place, in stations, the sum of two dollars and fifty cents ($2.50) per linear foot.

SEWERS—ITEMS 37 TO 74.

Vitrified and Cast-iron Pipe—Items 37 *to* 43.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of six dollars ($6) per linear foot.

Item 39. For eighteen (18) inch vitrified pipe sewer, the sum of seven dollars ($7) per linear foot.

Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of fifteen ($15.00) dollars per linear foot.

Item 47. For 4 feet by 2 feet 8 inches, the sum of sixteen ($16.00) dollars per linear foot.

Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.

Item 59. For 5 feet 9 inches, the sum of twenty-four ($24.00) dollars per linear foot.

Item 60. For 6 feet, the sum of twenty-five ($25.00) dollars per linear foot.

Item 63. For seven feet, the sum of thirty-two ($32.00) dollars per linear foot.

Item 65. For 8 feet 9 inches, the sum of thirty-eight ($38.00) dollars per linear foot.

SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of eighteen dollars ($18) per linear foot of single track.

PIPES IN STREETS—ITEMS 77 TO 126.

For Work and Material as Called for by Section 71 *of the Specifications.*

Water and Gas Pipes—Items 77 *to* 108.

Water Pipes—Items 77 *to* 88.

For water pipes in place, as follows:

Item 78. For 4-inch water pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 79. For 6-inch water pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

Item 84. For 20-inch water pipe, the sum of three ($3.00) dollars per linear foot.

Gas Pipes—Items 89 *to* 99.

For gas pipes in place, as follows:

Item 90. For 4-inch gas pipe, the sum of one dollar ($1) per linear foot.

Item 91. For 6-inch gas pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 92. For 8-inch gas pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

Item 95. For 16-inch gas pipe, the sum of two dollars and twenty-five cents ($2.25) per linear foot.

Item 96. For 20-inch gas pipe, the sum of two dollars and fifty cents ($2.50) per linear foot.

Item 98. For 30-inch gas pipe, the sum of three dollars and fifty cents ($3.50) per linear foot.

New Cast-Iron Hub and Spigot Water and Gas Pipe.

Items 100 *and* 101.

Item 100. For new cast-iron hub and spigot straight pipe delivered on the work, the sum of forty dollars ($40) per ton of 2,000 pounds.

Item 101. For new cast-iron hub and spigot pipe, special castings, delivered on the work the sum of seventy dollars ($70) per ton of two thousand pounds.

Air Pipes—Items 121 *to* 124.

For air pipe in place, as follows:

Item 122. For 8-inch air pipe, the sum of two dollars ($2.00) per linear foot.

New *Air Pipe Delivered on the Work—Items* 123 *and* 124.

Item 124. For new 8-inch air pipe, delivered on the work, the sum of two dollars ($2.00) per linear foot.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)

Item 127. For electric ducts and conduits in place, as provided in section 71-a of the Specifications, the sum of twenty-five cents ($0.25) per duct foot.

Work Not Susceptible of Classification.

Article 12. In case any work or materials shall be required to be done or furnished in or about the works—whether specified herein or indicated on the plans or not—which are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten per centum (10%) of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above, but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedule, except as otherwise herein expressly provided.

In case any work or material shall be required to be done or furnished under the provisions of this article, for cost plus ten per centum (10%), the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memorandum showing the work and materials actually paid for and the actual prices therefor.

Quantities Approximate Only.

Article 13. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the works under this contract; and neither the City, nor the Commission, nor any member of the Commission, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the works, be found even approximately correct in the construction of the works; and the Contractor shall make no claim for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article 14. The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings.

Plans May be Modified.

Article 15. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interest, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages

or extra service other than is provided for items of the different classes of construction shown in the schedule, or where not susceptible of classification, then as otherwise provided herein.

Contractor Bound to Complete in Best Manner.

Article 16. The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices herein agreed upon.

Best Materials, Machinery, Tools, etc., to be Used.

Article 17. The Contractor shall furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, etc.

Article 18. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to, damages or an extension of time for completion of the works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

Article 19. No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any part of the works.

Inspection.

Article 20. The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

Article 21. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and all employees of the Commission bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Engineer to be Furnished Facilities.

Article 22. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article 23. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, nothwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work, or any part thereof, shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials.

Engineer's Determination to be Final and Conclusive Upon Contractor.

Article 24. To prevent disputes and litigations, the Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain.

Article 25. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the railroad. The Contractor shall afford such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any differences or conflicts which may arise between the Contractor and other contractors of the Commission in regard to their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article 26. Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

III.—SPECIFICATIONS.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class. Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section 1. The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract. are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either in advance to show all details, or precisely to forecast all exigencies The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The Railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of New York, in the best manner, according to the best rules and usages of railroad construction, and in the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

To Construct in Accordance With Specifications.

Section 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class of work where applicable or as provided in Article XII. of the contract.

Maps and Drawings.

Section 3. The contract plans referred to in the contract and specifications bear date June 15, 1910, are each countersigned by the Engineer, are stamped with the seal of the Commission, bear the general title:

Route No. 5.

Contract Drawing No. ....

and are designated or numbered as follows:

For Section 8. Route No. 5.

Drawings as follows:

General Notes; Maps and Profile; Nos. A10, B18, B19, B101, B102, C1 to C11, inclusive, C1003, C1008, C1009, C1011, C1012, C1013, C401, C1032.

Plans and Contract Drawings.

Section 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Where, however, changes are deemed necessary they may be ordered under Article XV. of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract drawings, but designated as supplementary drawings. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface and subsurface structures.

Supplementary Drawings May be Examined.

Section 6. These supplementary drawings, for each section of the work, can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue prints) of these drawings for one or more of the sections, for such aid, if any, as may be derived from them, on the payment of the cost of printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section 7. If, upon opening the streets, by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by the samples of the test borings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications Not Exclusive.

Section 8. It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive.

Section 9. These specifications are grouped in subdivisions as follows:

1. Description of the Work. 2. General Clauses. 3. Manner of Prosecution and Maintenance of Traffic. 4. Street Railroad Tracks, Mains and other Surface or Subsurface Structures. 5. Excavation. 6. Tunneling. 7. Backfilling. 8. Piling and Timbering. 9. Cement. 10. Mortar. 11. Masonry. 12. Concrete. 13. Brick Masonry. 14. Stone Masonry. 15. Waterproofing. 16. Steel and Iron. 17. Painting. 18. Ducts and Conduits. 19. Drains and Pumps. 20. Sewers. 21. Requirements for Pipes. 22. Street Surface and Park Surface Restored. 23. Vault Lights, Gratings and Hand-rails.

1—Brief Description of the Work.

General Nature.

Section 10. The Rapid Transit Railroad which is hereinbefore described is to be an underground railroad or subway, the general details of construction and the location of the various tracks, junctions, grades, etc., being indicated more particularly on the contract drawings.

Stations to be Constructed.

Section 11. Stations are to be constructed at such places as are indicated on the plans, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidently with the completion of the Railroad.

Surface and Subsurface Structures.

Section 12. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Chambers and Gratings.

Section 13. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of necessary ventilating devices shall be built at the sides of the Railroad and in connection therewith. These chambers shall be generally of the form and dimensions as shown on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from the chambers, suitable air-ways, ducts or flues shall be constructed.

The chambers will be built at the places and as indicated on the plans.

Section 14. Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad.

Section 15. The chambers will be provided with suitable doors or openings, and with ladders reaching to the street for use as exits in case of emergency.

2—General Clauses.

Prevention of Water Percolation.

Section 16. It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section 17. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section 18. All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyances to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section 19. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system,

which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall fail so to prosecute his work that, in the judgment of the Engineer, it shall not be reasonablly probable that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section 20. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section 21. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the material needed for construction has been acquired and is available. Such permits are to be in such form and to cover such portions of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Section 22. Before any opening is made in the surface of a street. a copy of the permit issued by the Commission shall have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Notice Regarding Commencement of Work.

Section 23. Before commencing work on any part of the route, whether on the Railroad or on the sewers lying off the line of the Railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured.

Shafts and Dumping Platforms.

Section 24. Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., shall be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Ordinances and Regulations.

Section 25. In all operations connected with the Works, all ordinances of the City, and of the Board of Health. so far as they may be valid and operative with respect thereto, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, shall be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and Harbor of materials used in, or in connection with, the work.

Requirements of Borough President, etc., to be Observed.

Section 26. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Building and Water Permits; Shut-offs for Water Pipes, etc.

Section 27. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shall bear the cost of the service of inspectors required by any municipal department or other public authority in or about the execution of the work other than the inspectors or the employees of the Commission. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same and

of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in section 70 of the specifications.

Storage on Cross Streets.

Section 29. No material of any nature shall be stored along the streets occupied by the Railroad in Manhattan or on 138th street, in The Bronx. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of such structural material as may be absolutely necessary to avoid delay in construction may be stored; such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

Material Stored.

Section 30. Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section 31. In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Access to Fire Hydrants.

Section 32. Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Work to be Cleared.

Section 33. At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Assistance to be Rendered to Owners of Buildings.

Section 34. Where access to any adjacent property is temporary cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost. tender every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Waste Material.

Section 35. Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section 36. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense, wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section 37. Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Advertisements Forbidden.

Section 38. The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

Barricades.

Section 39. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Detailed Drawings.

Section 40. The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

Section 41. The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings. as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work called for by said working or shop drawings shall be done until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

Lines and Grades.

Section 42. During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the Railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work. The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Notice, How Given.

Section 43. When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Imperfect Work.

Section 44. Any imperfect construction which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to be Replaced.

Section 45. All work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work at the Contractor's expense.

Condemned Materials to be Removed.

Section 46. If any material brought on the ground for use in the work or selected for the same shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials as may be directed by the Engineer.

Competent Men.

Section 47. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

3—MANNER OF PROSECUTION AND MAINTENANCE OF TRAFFIC.

Access to Buildings, etc.

Section 48. No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and, where streets are open suitable bridges shall be built and maintained, at the Contractor's expense, to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Wharves and Docks.

Section 50. For that portion of the route adjoining wharves and docks the work must be so prosecuted as to permit free access to neighboring wharves and docks.

Contiguous Contract Sections.

Section 50-a. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of ten feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Other Portions of the Route.

Section 51. Generally the Contractor will be permitted to conduct its work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section 52. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both in longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section 53. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work when the excavation is in trench the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption.

Street Intersections.

Section 61. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted must be kept at all times open to traffic for at least one-half the width of the cross roadway, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Close Observance of Above Requirements.

Section 62. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

Openings for Ventilation.

Section 63. Wherever the excavations are decked, where gas pipes are maintained in service or where gases are liable to accumulate, suitable openings shall be provided for proper ventilation, or the Contractor may maintain services by temporary mains above the street decking.

Temporary Pipes, etc.

Section 64. Temporary pipes, if laid above the street or sidewalk surfaces, shall be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

In General.

Section 65. In general, work will, as provided herein, be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of its contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

4—Street Railroad Tracks, Mains and Other Surface or Subsurface Structures.

Notice to be Given.

Section 66. Notice is to be given by the Contractor to all companies and the proper City officials, owning or having charge of surface or subsurface structures along any part of the work. of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

Section 67. In the rearrangement of subsurface structures requiring removal and relaying or reconstruction due to interference with the railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if, in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Reconstruction or Relaying, etc.

Section 68. Whenever it becomes necessary to cut, move, change, or reconstruct any surface or subsurface structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures.

Reasonable Dispatch.

Section 69. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, etc.

Section 70. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface and subsurface structures encountered during the prosecution of his work. All surface and subsurface structures and surfaces of whatever character along the line of the work shall be protected from injury, but should any injury occur the Contractor shall fully restore such surface or subsurface structures or surfaces to as good a condition as existed before the injury was done. All the above, including also all changes of surface or subsurface structures made by the Contractor for his own convenience in executing his work, shall be done at the Contractor's own expense and included in the prices stipulated in the schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section 71. Changes of water, gas, steam or other pipes made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such pipes and their appurtenances in other than the original position, will be paid for at the prices stipulated in Schedule Items 77 to 99, Items 102 to 106, Items 109 to 114, Items 121 and 122, and Item 125. These prices are per linear foot of pipe laid including all work, labor and material incidental to such laying, excepting that:

(1) If new pipes have to be provided and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100 and 101, Items 107 and 108, Items 115 to 120, Items 123 and 124, and Item 126, which prices are to cover the cost of the new pipes delivered on the work.

(2) If the pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restora-

tion of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), and for restoration of street surface, Item 30-A and B, but only to the net lines ordered by the Engineer for excavation for such pipe work.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section 71-a. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75-A), made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the price stipulated in Schedule Item 127. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place; of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work and material incidental to and necessary for the completed duct lines.

Surface and Elevated Railroads.

Section 72. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface, subsurface and elevated railroads along the line of or crossing the line of the work.

Surface Railroads.

Section 73. The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads (including steam railroads), including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor will be at the rates specified in the Schedule for electric railroad, Item 75-A, or for horse railroad, Item 75-B, which prices will include the cost of all work incidental thereto. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Elevated Railroads.

Section 74. The Contractor shall maintain and support both temporarily and permanently in a safe condition all elevated railroad structures. Payment therefor will be at the rate specified in Schedule Item 76, which price will include the cost of all incidental work, including the reconstruction and building where necessary of all column foundations and parts of column foundations lying without the net lines of the subway structure.

Subsurface Railroads.

Section 75. The Contractor shall support and maintain both temporarily and permanently in a safe condition all subsurface railroads and their appurtenances. Payment therefor shall be deemed included in the prices for excavation, Schedule Items 1, 2 and 3.

Facilities to be Given to Make Extensions.

Section 76. In the event of the owners or the City desiring to make any alteration or extension to their structures, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

Parks and Parkways, Trees, etc.

Section 77. In any park or parkway, or where any grass plots or trees exist along any street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree of the same kind as the tree removed, injured or destroyed, and not less than fifteen (15) feet in height and not less than three and one-half (3½) inches in diameter measured two feet above the surface of the ground, and in such position as the Commissioner of Parks shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants

removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

Section 78. In replanting trees and the replanting of grass plots the Contractor must be governed by the reasonable requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be approved by such authorities and by the Commission.

Payments, How Made.

Section 79. Payment for all work covered by Sections 77 and 78 shall be included in the prices paid for Park or Street Surface Restored, Schedule Items 31 or 30.

5—Excavation.

Width of Excavation.

Section 80. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the railroad, as shall be necessary in the opinion of the Engineer for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Depth of Trenches.

Section 81. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Sides to be Secured.

Section 82. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheeting.

Section 83. Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned.

Section 84. To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and shall safely and permanently underpin adjacent buildings. As part of this obligation the Contractor shall use such methods of construction or underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Payment For.

Section 86. Where underpinning of a building is necessary and the work is done as provided in Section 84, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4. The classification as to the number of stories has reference to the number of stories above the surface of the street.

Sheeting.

Section 87. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section 88. All timber used for sheeting, shoring, bracing, decking or other temporary purposes, shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of hard yellow pine, sound, straight and free from all shakes, and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

Vaults of Abutting Property.

Section 89. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section 102, but the restoration of all such walls or other parts of vaults within the ordered net lines of excavation will be paid for at the unit prices specified in the Schedule applicable to the several classes of work and material involved in such restoration.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be at the Contractor's own cost and expense.

Vaults Disturbed.

Section 90. Wherever vaults are broken through or otherwise disturbed, the Contractor shall, at his own cost and expense, erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Rock.

Section 91. Ledge rock in place, and boulders within the ordered line of excavation requiring blasting, will be considered as rock excavation.

Preparations for Rock Measurement.

Section 92. Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than 20 feet; and the engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Blasting.

Section 93. Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section 94. No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and it shall be kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

Near Pipes and Mains.

Section 95. Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

General Precautions in Blasting.

Section 96. In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Blasting.

Section 97. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides,

and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section 98. Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Carts to be Tight.

Section 99. All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Removed Expeditiously.

Section 100. Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the Harbor of New York.

When Excavated Material May be Taken by the City.

Section 101. If at any time during the course of construction the City shall desire for City purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section 102. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders requiring blasting.

Excavation in Trenches, How Measured.

Section 103. The net outside width of the railroad structure, as ordered and indicated on the plans, and the depth, also as ordered and as indicated on the plans, will govern as to width and depth in the measurements for payment for excavation. No deduction from the volume of excavation determined as above, will be made on account of basements or cellars in property acquired by the City for the construction of the railroad or on account of vault space or of spaces occupied by pipes and other subsurface structures.

No Allowance Outside of Ordered Net Lines.

Section 104. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines as above indicated, or in rock excavation, for irregularities of surface; and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the schedule.

Change of Street Grade.

Section 105. Where the contract drawings indicate that the grade of any street is to be raised the Contractor shall fill in the street to the changed grade as required and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section 106. Excavation shall be paid for at the price or prices given in Schedule Items 1 and 2 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section 107. The prices herein stipulated for excavation, Schedule Items 1, 2 and 3, are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance, support, etc., of all surface and subsurface structures of whatever nature, payment for the maintenance and support of which is not herein elsewhere specifically provided for.

6—TUNNELING.

How Lined.

Section 108. All tunnels shall be lined with steel or cast iron and concrete, or with concrete or brick masonry.

Where tunnels are lined with concrete or brick work without metal tubes, proper provisions shall be made for keeping the tunnels dry by the use of drains, and by other methods as elsewhere provided.

Packing.

Section 109. The space between the extrados of the arch or back of the sidewalls and the rock or other materials of excavation, shall be filled with concrete to a height of two feet above the spring line of the arch—above this concrete the space shall be filled with dry masonry packing. Similarly in the tunnel floor, if concrete is used, all loose muck shall, if directed by the Engineer, be removed to the solid rock and the space filled in with concrete up to the bottom line of the section ordered by the Engineer for tunnel excavation and concrete. All such concrete or other packing, being outside of the net section line for excavation as ordered by the Engineer, shall be at the sole expense of the Contractor.

Grout.

Section 110. After the tunnel lining and packing is in place, if required by the Engineer, a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part Portland cement, shall be pumped in under pressure, from time to time behind the masonry, so as to completely fill all the voids. Where tunnels are made by the use of a shield, similar grout shall be pumped in to completely fill the space left by the tail piece of the shield as soon as the shield is moved forward.

Payment for Grout.

Section 111. Where grout is ordered and used, it shall be paid for at the price herein provided, Schedule Item 11.

Lines for Excavation.

Section 112. The tunnel, at any place, is to be excavated to the line of the cross-section ordered by the Engineer for that place.

No Payment for Excavation Beyond Ordered Lines.

Section 113. All loose or shaky rock, whose fall or settlement might, in the judgment of the Engineer, produce an unequal or concentrated pressure on the masonry, shall be removed, and the space refilled with such class of masonry as the Engineer may require and as provided in Section 109, but no payment will be made for any excavation outside of the cross-section of the tunnel excavation ordered by the Engineer, as provided in Section 112.

Blasting.

Section 114. Drilling and blasting must be conducted with all possible care and in such a manner as not to shatter the roof and sides outside of the section lines, as ordered by the Engineer, nor endanger adjoining property.

Drains.

Section 115. All seams carrying water shall be carefully drained, as specified under the clauses relating to drainage.

Precautions Against Settlement.

Section 116. The Contractor must take every precaution, and such precautions as the Engineer may direct, by suitable shields, timbering, lagging or other supports, to prevent any settlement or movement of surrounding ground. Such timber as cannot be drawn without endangering the work or the ground above, shall be left in place and thoroughly surrounded by masonry and grouted.

Timbering.

Section 117. Timbering shall be used wherever necessary to support the materials or to secure the safety of the work or workmen. It will be at the sole expense of the Contractor and included in the contract price for tunnel excavation, Schedule Item 5. Wherever practicable it shall be removed before the concrete lining or concrete or other packing is placed.

Compressed Air.

Section 118. If for the work under the Harlem River and for the approaches thereto or elsewhere on the work a method is adopted requiring the use of compressed air, a plant must be provided of sufficient capacity to insure at all times and under all conditions an ample supply of air to prosecute the work with safety and dispatch, and proper air locks shall be built with safety locks, in addition to provide for the escape of workmen at time of accident.

Methods to be Approved.

Section 119. All methods of tunneling shall be subject to the approval of the Engineer, and be changed from time to time, if, in his judgment, the local conditions so require, and during construction approved methods of ventilation and lighting shall be used.

Tunneling, Payment For.

Section 120. The price per cubic yard, stipulated herein, Schedule Item 5, for tunnel excavation, is to cover all expense due to the presence of quicksand or other soft material, rotten rock, boulders, etc.; the cost of all pumping and bailing; of all timbering, and removal of same; of removing all excavated material; of all ventilation and lighting; and of all other work incident to the excavation of the tunnel. Any expense that may arise from loose or shaky rock or from falls or cave-ins, or from any unexpected obstacles, shall be borne by the Contractor. In earth sections the tunnel excavation must be large enough to permit building the masonry to the full required thickness, clear of such timbering and lagging as it may be necessary to build in. As a fair provision for such contingencies, it is assumed that the excavation will extend an average distance of one (1) foot outside the net line in the roof and sides and six (6) inches below the net line in the floor, and measurements for payment in tunnel excavation in earth will be made to those lines. It is distinctly understood, however, that no such allowances or any other allowance in tunnel excavation will be made in connection with timbering in tunnel excavation in rock.

Chambers, Drains, etc.

Section 121. Excavations for chambers, for skewbacks of arches, for sump holes, drains or for any other purpose in the tunnel, are to be measured according to the lines of the cross-sections determined by the Engineer, and paid for by the cubic yard as tunnel excavation.

Additional Enlargement.

Section 122. If after the excavation has been made of a certain size by direction of the Engineer, he is of opinion that the nature of the rock or other material is such that the form and dimensions of the masonry for which said excavation was intended must be increased, he may order an enlargement of the excavation for the purpose of building masonry of greater thickness, and the Contractor is to make such enlargement, which is to be measured according to the lines given by the Engineer, and paid for at the price per cubic yard stipulated in the schedule for tunnel excavation.

7—Backfilling.

Quality of Material. How Placed.

Section 128. The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six inches in depth.

Subsurface Structures. Frozen Material Not Permitted.

Section 129. Whenever pipes, sewers or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

Section 130. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, or shall be left in place, as may be directed by the Engineer, and the spaces left by the removal of such material carefully back-filled.

How Paid For.

Section 131. The cost of backfilling is to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2, 2-A, 3 and 3-A.

8—PILING AND TIMBERING.

Piles.

Section 132. If in the judgment of the Engineer the ground is of such a character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good sound pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

Piles Driven in Required Location.

Section 133. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section 134. The price herein stipulated to be paid, per linear foot of timber piles, Schedule Item 12, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section 135. If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Payment for Piles Other Than Timber Piles.

Section 136. Payment for piles other than timber piles will be as provided in Article XII. of the contract.

Grillage.

Section 137. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section 138. All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

Foundation Timber, Measurement and Payment.

Section 139. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his direction. Payment for foundation timber will be as provided in Schedule Item 13.

9—CEMENT.

Portland Cement.

Section 140. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks, to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to be Approved.

Section 141. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section 142. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section 143. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section 144. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section 145. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO_3) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section 146. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 inch and 0.0024 inch in diameter.

Time of Setting.

Section 147. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section 148. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section 149. Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength, per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) pounds. The strength at twenty-eight (28) days shall not be less than that at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, shall have at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than two hundred (200) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Long-time Tests.

Section 150. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section 151. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section 152. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section 153. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

10—MORTAR.

Cement and Sand. Mixing.

Section 154. All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

Section 155. For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; and for other classes of work, as directed by the Engineer; for grout, one (1) part of cement to one (1) part of fine sand.

11—MASONRY.

Laid in Portland Cement.

Section 156. All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Section 157. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section 158. During freezing weather such masonry only shall be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor shall provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

Protected in Freezing Weather.

Section 159. During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Hot Weather.

Section 160. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section 161. Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Section 162. Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

Section 163. No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Defective Masonry.

Section 164. Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

Section 165. All stone before being laid shall be thoroughly cleaned and washed if so directed by the Engineer.

12—CONCRETE.

How Composed.

Section 166. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below.

Sand.

Section 167. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section 168. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section 169. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths (⅜) inch in diameter, and no pieces that will not pass through a hole one and one-half (1½) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths (⅜) and three-fourths (¾) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section 170. In concrete, where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may embed in the same pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly embedded. No two (2) stones shall be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

Section 171. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section 172. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone. Concrete for tube tunnels under the Harlem River will be as indicated on the plans.

Section 173. Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone.

Mixing by Machine.

Section 174. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used.

Mixing by Hand.

Section 175. When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet, as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Section 176. Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or spading, special tamping bars or tools being used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Section 177. Concrete to which waterproofing is to be applied shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Section 178. Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleaned.

Section 179. Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Section 180. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface shall be left rough to form a bond with the new work; and if deemed necessary by the Engineer, the points shall be reinforced with steel bars or dowls, to be furnished by the Contractor.

Joints Cleaned.

Section 181. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section 182. Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Section 183. No forms made of wood, and covered with iron will be permitted.

Section 184. The forms, if made of wood, shall be made of boards with tight joints, tongued and grooved, if required by the Engineer.

Precautions in Placing.

Section 185. Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

Section 186. The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before

placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Reinforcement Steel.

Section 187. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not to be Painted.

Section 188. The exposed faces of the concrete, excepting within station limits, shall be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids, as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

Impervious to Water.

Section 189. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Concrete, How Measured and Paid For.

Section 190. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centres, forms, etc., and removing the same, and all work incidental thereto.

Backing or Filling Concrete, Not Paid For.

Section 191. No concrete backing or filling outside of the ordered net lines of excavation will be paid for.

(For Concrete in Sewers, see Sewers.)

13—BRICK MASONRY.

Quality.

Section 192. Bricks for masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Section 193. Hollow terra cotta blocks or bricks may be required in station work, on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

Section 194. All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in stations) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

Section 195. The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

Section 196. All bricks of whatever nature shall be carefully culled and, if necessary, gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

Racked or Toothed.

Section 197. All unfinished work shall be racked or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Section 198. Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

Measurements and Payments.

Section 199. Brick masonry shall be measured to the lines indicated and shown on the plans and as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry, and Item 10 for hollow terra cotta brick or tile masonry; these prices are to include the cost of all scaffolding, forms, centres, etc., and the removal of the same, of all plastering and pointing, and of all other work incidental thereto.

14—STONE MASONRY.

Rubble Stone Masonry, Where Used.

Section 200. Rubble stone masonry will be used for supporting the street railroads over the roof of the Railroad where permanent supports are required, or at such other places as the Engineer may require.

How Laid.

Section 201. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Measurements and Payments.

Section 202. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8.

Other Masonry.

Section 203. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article 12 of the contract.

15—WATERPROOFING.

General Limits of Waterproofing.

Section 204. In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

Protecting Masonry.

Section 205. The protecting masonry shall be hollow terra cotta blocks, common brick or concrete, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section 206. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section 207. All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a treated woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

Section 208. The term "ply" as used in these specifications shall mean a layer of treated woven fabric, both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

Section 209. The number of plies of waterproofing on the sides at stations shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Section 210. Over the roof of the structure within station limits and over the tracks passing through the stations within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, or if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

Quality of Brick.

Section 211. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section 212. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Section 213. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section 214. Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Section 215. Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped, at the sole expense of the Contractor.

Quality of Pitch.

Section 216. Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Coal-tar Pitch.

Section 217. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25) per centum and not more than thirty-two (32) per centum of free carbon, which will soften at approximately 70° F., and melt at 100° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section 218. The asphalt used shall be the best grade of Bermudez, lake or other natural asphalt, subject to the approval of the Engineer, and shall comply with the following requirements:

The asphalt shall contain in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum

naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

Section 219. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

Section 220. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall then be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric for Waterproofing to Be Carefully Laid.

Section 221. The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken by overlapping, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Section 222. When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

Skilled Labor to Be Employed.

Section 223. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section 224. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

16—STEEL AND IRON.

Open Hearth Process.

Section 225. Steel shall be made in open hearth furnace.

Chemical and Physical Properties.

Section 226. The chemical and physical properties of finished material shall conform to the following limits:

Properties	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. "	.05%	.04%	.05%
Mn. "	.60%	.60%	.80%
Si. "	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000±(Min.)
Yield Point	55% Ult.	55% Ult.	35000±(Min.)
Elongation	$\frac{1500000}{\text{Ult. Str.}}$	$\frac{1500000}{\text{Ult. Str.}}$	20% in 2"
Fracture	Silky.	Silky.	Fine granular.
Cold Bend	180° flat.	180° flat.	120° (d.=3+.)

Yield Point.

Section 227. The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Section 228. Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel Castings.

Section 229. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section 230. The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for Bending.

Section 231. Specimens for bending shall be cut from the material as rolled.

Rivet Rods.

Section 232. Rivet rods shall be tested as rolled.

Steel Castings.

Section 233. For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

Ductility Elongation.

Section 234. In determining the ductility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

Section 235. For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the outside of the bar.

Section 236. For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

Section 237. The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

Section 238. At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

Section 239. A variation in weight of any piece of steel of two and one-half (2½) per centum from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Section 240. Each finished piece of steel shall be marked with the melt number, excepting that bars for reinforcing concrete shall be bundled and the melt number stamped on a metal tag attached to each bundle.

WROUGHT IRON.

Double Rolled.

Section 241. All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile, and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

Section 242. The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) lbs. per square inch, and a yield point of twenty-six thousand (26,000) lbs. per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True to Pattern Tests.

Section 243. All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attended the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) lbs. with a deflection of at least one-tenth (1/10) of an inch before rupture.

WORKMANSHIP.

Quality.

Section 244 All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods Deformed Sections.

Section 245. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods and Bars.

Section 246. Bent rods and bars and other bent material shall be bent hot and annealed, except that obtuse bends in material less than one square inch section may be made cold when permitted by the Engineer. The bending shall be done before the material is delivered on the work. Except in special cases, all bends shall be made uniformly to template.

Material Straightened in Shop.

Section 247. All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

Section 248. All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

Section 249. In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1/16) of an inch, the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the materials to be sub-punched and reamed, a punch of diameter three-sixteenths (3/16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1/16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

Section 250. All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Section 251. Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

Section 252. All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Section 253. Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall

be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Section 254. Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

Section 255. All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Section 256. Finished members shall be true and free from kinks, twists, or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Section 257. Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Section 258. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

Section 259. All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of the strain, so as to insure even bearings.

Stiffeners.

Section 260. Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Pins and Rollers.

Section 261. Pins and rollers shall be turned accurately to a gauge, and shall be of full size throughout. All pin-holes shall be bored truly and at right angles to the axes of the members to be connected, and shall fit the pins with a play not exceeding one thirty-second (1/32) of an inch.

Bed Plates Planed.

Section 262. Bed plates shall be planed. The bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Section 263. Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

Section 264. The weight of every piece and box shall be plainly marked upon it.

Inspection.

Section 265. Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

Section 266. The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

Section 267. The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Errors in Plans.

Section 268. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Chemical Analysis.

Section 269. Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analysis.

Section 270. Check analysis shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

Section 271. The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

Section 272. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section 273. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground and to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel and Cast Iron.

Section 274. The prices to be paid for steel and cast iron are as herein provided in Schedule Items 19, 20, 21, 22, 23 and 24. These prices include the cost of material delivered and erected in the work, with the exception of Item 23, the placing of which is provided for in Item 22. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings.

Section 275. For other castings, not included in the above and not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25.

Wire Mesh.

Section 276. Wire mesh, of a character and weight to be approved by the Engineer, is to be furnished and placed around the lower flanges of the roof girders, and at other places as may be required, in order to hold the concrete in place.

Wire Mesh, Payment For.

Section 277. Wire mesh, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

17—Painting.

Section 278. All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

Section 279. All iron shall be scraped free from scale, and receive one coat of red lead paint as herein specified before leaving the shops. All surfaces which come

in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

Section 280. The red lead shall be strictly pure, and shall contain at least 80 per cent. of "true lead" ($Pb_3 O_4$). The color shall be a clean, pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk bolting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

Section 281. The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212° Fahr. on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60° Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section 282. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section 283. Red lead paint shall be mixed in the proportion of 500 pounds of red lead to 5½ gallons of boiled linseed oil, and 11 gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section 284. Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Section 285. Structural steel and rods to be embedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

Section 286. The second coat of paint shall be a carbon paint approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon.

Metal to be Cleaned After Erection.

Section 287. After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Section 288. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer.

Third Coat, When Applied.

Section 289. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after a completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable. The several field coats shall be sufficiently tinted to be distinctive.

Surfaces in Contact.

Section 290. Surfaces of exposed members inaccessible after erecting, shall be cleaned and painted before erecting.

Recesses, etc.

Section 291. All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

Section 292. All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth. if necessary.

Rainy or Freezing Weather.

Section 293. No painting in rainy or freezing weather or on wet surfaces will be permitted.

Payments.

Section 294. Payment for painting is included in the prices for steel and iron.

18—DUCTS AND CONDUITS.

Vitrified Ducts—Quality and Size.

Section 295. The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters liable to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to injure the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

Thickness of Ducts.

Section 296. The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

Ends Combed.

Section 297. The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

Section 298. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section 299. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section 300. The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick unbleached muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. The muslin shall be not less than 56 by 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

Mandrels.

Section 301. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section 302. The ducts shall be laid with dowel pins, at least two pins on the opposite sides horizontally.

Laid to Line.

Section 303. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To be Rodded.

Section 304. After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening.

If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts, during construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section 305. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad.

Duct Manholes.

Section 306. Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the Railroad, as necessary, in accordance with the location of the duct lines. They may vary in form as may be necessary to accommodate the work to local conditions.

Duct Manholes at Stations.

Section 307. Duct manholes will be built at the ends of the stations to provide for the passage of the ducts under the station platforms, and if found necessary on account of the lengths of stations, additional manholes will be constructed under the platforms.

Section 308. At manholes the ducts will be laid to conform to the special conditions.

Section 309. In all work where iron pipe or fibre conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Section 310. The iron pipe or fibre conduits required by section 309 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

Section 311. All iron conduit used for any purpose in connection with the work herein shall be of the best grade (Galvaduct or equal), standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. It shall be delivered to the work in bundles of full length pipes, each length marked with the trade-mark of the manufacturer. It shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Installation.

Section 312. All conduit shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Watertight.

Section 313. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a watertight job.

Fibre Conduits, Quality, Laying, etc.

Section 314. All fibre conduit shall be made of impregnated fibre equal to that manufactured by the Fibre Conduit Company of Orangeburg, New York.

It shall be of uniform thickness, having walls of not less than one-quarter (¼) inch and true cylindrical holes not less than two (2) inches in diameter. Lengths shall be not less than five (5) feet, and all ends shall be finished.

All joints shall be made by suitable finished sleeves fitting closely over the ends of the conduit and made watertight by making up with an approved bituminous compound.

After laying, all ducts shall provide a clear, true opening, free from obstructions and imperfections in any way injurious to the wires to be installed. All ducts shall be rodded and cleaned with an approved mandrel not less than one and three-quarter (1¾) inches in diameter and eighteen (18) inches long.

Built in Concrete, etc.

Section 315. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Not Built in Concrete.

Section 316. Conduit not built into the structure shall be supported by approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section 317. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section 318. Measurements for the above iron pipe or fibre conduits shall be per linear foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section 319. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a watertight joint. Covers shall be of cast iron and watertight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet box furnished and placed in the work shall be as herein stipulated in Schedule Item 33.

19—DRAINS AND PUMPS.

Railroad to be Drained.

Section 320. Every part of the Railroad, the stations and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Section 321. Where the Railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the Railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the Railroad and draining into the sewers.

Subdrains.

Section 322. Along such parts of the work where the soil is not porous, or where the floor of the Railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Connections and Cross Drains.

Section 323. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the Railroad shall be as necessity demands and all as directed by the Engineer. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron. as directed.

Broken Stone for Drainage.

Section 324. On the roof of the Railroad and at other points as may be directed or indicated on the plans, broken stone shall be placed for the purposes of drainage.

Sumps.

Section 325. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the subdrains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section 326. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall each have a separate source of power, and shall be arranged to operate antomatically. Under this contract the Contractor will only furnish the pump or pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

The pumps shall be of the capacity required by the Engineer.

Capacity.

Section 327. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Delivery to Sewers, etc.

Section 328. The delivery of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains, Broken Stone, Pumps, etc.

Section 329. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Item 17. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever such as bends, tees, wyes, handholes, etc., and all materials necessary for jointing the same. Where back-pressure valves or gate valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Section 330. For broken stone for drainage, furnished and placed, Section 324, payment will be made as provided in Schedule Item 14.

Section 331. For pumps, Section 326, the Contractor will be paid as provided in Article XII. of the contract, not including, however, the pipe connections with sumps and sewers which pipe will be paid for as hereinbefore provided in Schedule Item 17.

Soil Pipes for Stations.

Section 332. It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in positions as shown on the plans and will be paid for as provided in Schedule Item 34.

20—SEWERS.

In Accordance With Plans and Specifications.

Section 333. All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades, at the depths, with the connections, and in the manner called for by these specifications and shown on the drawings.

Change of Location.

Section 334. If in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

Section 335. The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims for Damages.

Section 336. Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of

departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section 337. The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the Railroad, shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but shall be not less than three feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Section 338. Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section 339. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section 340. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle, enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin. In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations.

Section 341. Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary, and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form, with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Inspection of Grades.

Section 342. When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector, and no construction work shall be done in his absence.

Trenches to be Kept Free from Water.

Section 343. The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunneling.

Section 344. When tunneling for sewers shall be deemed advisable, it shall be done in a manner approved by the Engineer.

Gutter and Passageway to be Kept Open.

Section 345. At all times, gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Section 346. Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

Section 347. All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

Section 348. The Contractor shall provide for the flow of all sewers, drains and watercourses, interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Brick.

Section 349. In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two rings of bricks are required.

How Laid.

Section 350. The bricks shall be properly wet immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the points to be carefully struck on the inside.

Racked Back or Toothed.

Section 351. All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Back or Stone Inverts.

Section 352. All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used for the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

Section 353. The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed or withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling in of the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Section 354. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the

sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

Section 355. Spurs shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Section 356. Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used unless otherwise ordered by the Engineer. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water mains.

Under Station Platforms.

Section 357. Wherever the sewer passes under a station platform or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed, as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Section 358. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section 359. Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Section 360. Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place.

Invert to be Protected.

Section 361. The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Section 362. Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work.

Defective Work.

Section 363. If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

Section 364. No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

Section 365. In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers—Quality of Pipe.

Section 366. Pipe sewers shall be built of vitrified, salt glazed stoneware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

Section 367. The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

6-inch pipes shall be not less than ⅝ of an inch thick.
8-inch pipes shall be not less than ¾ of an inch thick.
10-inch pipes shall be not less than ⅞ of an inch thick.
12-inch pipes shall be not less than 1 inch thick.
15-inch pipes shall be not less than 1¼ inches thick.
18-inch pipes shall be not less than 1½ inches thick.
24-inch pipes shall be not less than 2 inches thick.
30-inch pipes shall be not less than 2½ inches thick.

Lengths.

Section 368. No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved and Split Pipes.

Section 369. When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length. Split pipes shall be used when found necessary.

Hub and Spigot Pipe.

Section 370. In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

Section 371. In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than five inches wide. Each collar must have an internal diameter of not less than one-half inch nor more than one and one-half inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Section 372. Pipes having spurs not less than six inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

Section 373. The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Section 374. Bends, siphons and special pipes shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

Section 375. All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be four inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

Section 376. When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

Section 377. When pipe without hubs is used, a collar or ring shall be used at joints and shall lap equally the ends of each abutting pipe. Such collar or ring shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

Spaces Between Pipes Uniform.

Section 378. The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be removed and the inside of the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Section 379. Sewers of iron pipe, of quality and laid in the manner described elsewhere in these specifications for the laying of water mains, shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Section 380. Wherever such pipes are laid under station platforms or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an airtight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Section 381. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

Section 382. All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

Section 383. All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid,

except as may be necessary in tamping the earth and refilling, will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

Section 384. The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

Section 385. The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Section 386. The masonry of manholes shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by selected bluestone slabs eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

Section 387. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Section 388. Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

Vitrified Bricks or Granite Blocks.

Section 389. The invert shall be built of vitrified brick, granite blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section 390. A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Section 391. Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Section 392. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section 393. A cast iron manhole head and cover of the quality specified for cast iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Section 394. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Section 395. Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds.
Street manhole cover, 135 to 150 pounds.
Sidewalk manhole head, 300 to 310 pounds.
Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

Section 396. When the pavement of the street is asphalt on wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Manhole Heads and Covers.

Section 397. All manholes in station platforms, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section 398. Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

Section 399. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section 400. Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

Section 401. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

Section 402. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section 403. Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-Iron Cover.

Section 404. A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

Section 405. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

Section 406. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

Joints.

Section 407. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so desired.

Iron Steps.

Section 408. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section 409. The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as in the opinion of the Engineer may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Section 410. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section 411. Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Mortar.

Section 412. All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

Section 413. All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

Section 414. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under the heading of "Street Surface and Park Surface Restored."

Permits for Connections.

Section 415. The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections. This is not to be construed, however, as permitting the introduction of storm water or sewerage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section 416. During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor, all at his own expense.

Payment for Sewers.

Section 417. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 37 to 74, both inclusive, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections 333 to 416 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavations.

Section 418. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), on the basis of size of trench stipulated in Sections 337 and 340, excepting where the sewer is built by tunneling, in which case tunnel excavation will be paid for at the price herein stipulated in Schedule Item 5-A (which prices shall include all the matters referred to in Sections 117 and 120), on the basis of the net ordered lines of the sewer. Payment for street surface restored shall be as provided in Schedule Items 30-A or B.

Steel Beams and Reinforcing Rods.

Section 419. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21

Automatic Flush Tanks.

Section 420. Where automatic flush tanks are built as provided in Section 410 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section 421. Where waterproofing is required and placed in accordance with Section 411 of the specifications it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Siphons.

Section 422. Where inverted siphons passing under the subway structure are called for and built, they shall be considered as part of the regular subway construction from outside to outside of the sewer chambers or between points of departure from standard sewer construction, such limits being indicated on the plans; and payment for such siphons will be made in accordance with the various classes of work or material as are applicable thereto in the Schedule and at the prices therein stipulated for such items.

Cast-Iron Pipe Sewers, etc.

Section 424. All cast-iron pipe sewers wherever built, and the parts, within the limits of the Railroad, or as indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

House and Drainage Connections.

Section 425. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Sections 422 and 424 will be included in the prices for the several classes of work and material entering into such construction.

21—REQUIREMENTS FOR PIPES.

Generally.

Section 426. Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

Section 427. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section 428. The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

Section 429. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots

to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth (1/8) of an inch, or whose dimensions differ by more than one-eighth (1/8) of an inch from those required.

Section 430. The pipes shall be designated by dimensions of the interior diameter

Section 431. Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

Section 432. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Section 433. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section 434. The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

60-inch pipes, 12,835 pounds each.
48-inch pipes, 8,270 pounds each.
42-inch pipes, 6,860 pounds each.
36-inch pipes, 5,305 pounds each.
30-inch pipes, 3,940 pounds each.
24-inch pipes, 2,660 pounds each.
20-inch pipes, 2,005 pounds each.
16-inch pipes, 1,475 pounds each.
12-inch pipes, 1,015 pounds each.
8-inch pipes, 580 pounds each.
6-inch pipes, 415 pounds each.

High Pressure Fire System.

Section 435. For high-pressure fire system standard spigots and grooves—The weights for straight pipes, with lugs, shall be approximately as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch	355	420	550	935
12-inch	615	745	1,000	1,765
16-inch	1,005	1,215	1,635	2,905
20-inch	1,475	1,795	2,425	4,320
24-inch	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Section 436. The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

Section 437. No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

Underweight.

Section 438. No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent., for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

Straight Pipe Cast Vertically.

Section 439. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Section 440. All the castings shall be made in such molding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

Section 441. All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and

the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

Section 442. The metal of which the castings are to be cast (which shall be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

Section 443. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings to be Clean.

Section 444. The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes shall be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Section 445. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section 446. The coal-tar pitch shall be made from coal tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Section 447. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and shall be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Section 448. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit, before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

Section 449. No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section 450. The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

Section 451. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the Inspector.

Blocking and Wedges.

Section 452. Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

Timber for Blocking.

Section 453. The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

Section 454. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and the hub shall be packed with clean, sound jute packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a watertight joint

Lead.

Section 455. The lead to be used shall be of the best quality of pure, soft lead. and in every respect suitable for the purpose.

Notice of Interruption to be Given.

Section 456. In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

Connections Interfered With.

Section 457. All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stopcocks, etc.

Section 458. Stopcocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Section 459. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

22—STREET SURFACE AND PARK SURFACE RESTORED.

Pavement to be Restored.

Section 460. As soon as the structure in any excavation or trench made within a street shall be completed and the trench backfilled, a temporary pavement shall be laid and maintained in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as, that existing previous to the commencement of construction; except that the Contractor will not be required to permanently restore the pavement of roadways between curb lines, but shall provide a temporary roadway pavement as follows:

Temporary Roadway Pavement.

Section 461. Upon the backfill, placed and compacted as provided under the clauses relating to backfilling, shall be placed a layer of sand, about an inch and

a half in thickness, on which shall be laid a pavement of granite blocks carefully laid and rammed to the required finished grade of the street surface. The end and side joints shall be thoroughly filled with sand, and shall not exceed ¾ of an inch in thickness. The granite blocks required for this temporary pavement, if found in or under the original pavement, shall be stored at a suitable place until required for use. In case granite blocks are not found in or under the original pavement, they may be obtained by the Contractor, free of cost, from the Bureau of Highways at the corporation yards.

The Contractor shall maintain the temporary roadway pavement thus laid for a period not exceeding six months from the time of its completion in any one block or street intersection. During this period the Contractor shall, without requiring previous notice, readjust or relay any portion of the pavement wherever and whenever a straight edge 3 feet long, laid in any direction, shows a depression of more than ¾ inch.

All the requirements as to street surface restored, including temporary roadway pavements, shall apply to the trenches for sewers, pipes or other subsurface structures along or off the line of the Railroad. Within the limits of private property to be taken by the City for the extension of Irving Place, these requirements will not apply.

Other Sidewalks May be Laid.

Section 462. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such property owner, duly acknowledged in writing by both parties.

In case any property owner desires to lay a sidewalk, or other surface covering within curb lines, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the restoration as hereinbefore provided.

Payment for Street Surface Restored.

Section 463. Payment for street surface restored will be made as provided in Schedule Item 30-A or B, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface.

Measurements.

Section 464. The measurement for payment for street surface restored will be to the net line of ordered excavation.

Outside of Net Lines.

Section 465. All other pavement outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as the result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally good as that existing previous to the commencement of construction.

Parks and Parkways.

Section 466. All parks and parkways including trees, shrubbery, etc., as elsewhere provided in this contract and the specifications, are to be restored to the satisfaction of the Department of Parks.

Measurement.

Section 467. Measurements for park surface restored are to be to the net lines of ordered excavation.

Payment For.

Section 468. Payment for park surface restored will be made at the price provided in Schedule Item 31.

Outside of Net Lines.

Section 469. Any damage done outside of the net lines of ordered excavation in connection with the construction of the work to park surfaces or growths, under the jurisdiction of the Department of Parks, shall be restored to the satisfaction of the said Department, and at the Contractor's own cost and expense.

23—VAULT LIGHTS, GRATINGS AND HAND-RAILS.

Vault Lights.

Section 470. The roofs of the stations, where under sidewalks, parks or parkways, shall, to as great an extent as possible, consist of vault light construction. These lights shall be made with lenses, not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame or panel in every ten (10), as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and if that fail, then the whole lot may be rejected. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

Section 471. The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and the price paid will be as provided in Schedule Item 29, which price shall include all material and work incidental to the completed vault lights in place.

Steel Gratings.

Section 472. Steel gratings shall be provided and placed over fan and other ventilating chambers, over stations and station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Measurement and Payment.

Section 473. Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work.

Galvanized Iron Pipe Hand-Rails.

Section 474. Galvanized iron pipe hand-rails will be placed in the Railroad over the benches containing the ducts. They shall be securely fastened to the wall of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of hand-rail in place in the work, complete, and at the price as stipulated in Schedule Item 27.

IV.—SECURITY TO BE FURNISHED BY CONTRACTOR.

Security by Contractor. Contractor's Bond.

Article 27. Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in the form annexed hereto, entitled, "Form of Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum specified in the Invitation to Contractors for the Section embraced in this contract. In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within ten days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such ten days or such further time as the Commission may grant, to substitute another and sufficient surety, then the contractor shall, for all the purposes of this contract be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor

the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

V.—Payments to Contractor.

Partial Payments.

Article 28. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with the contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand dollars ($10,000). The Engineer shall further include accepted structural iron and steel delivered on the site of the work, but not incorporated in the work, at the rate of forty dollars ($40) per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory, shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, and none of the Contractor's plant shall be included in partial estimates.

Not by Strict Measurement.

Article 29. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article 30. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify a voucher for ninety per cent. of the amount stated in such estimate or certificate to be the value of the work done and materials furnished, and the City shall within thirty (30) days after the date of the certification of such voucher by the Commission pay the same; provided, however, that the City may at all times reserve and retain from said partial payments, or any of them, in addition to the ten per cent. above mentioned to be retained and reserved, any sum or all sums which by the terms hereof, or of any law of the State of New York passed prior to the date hereof, it is or may be authorized to reserve or retain.

Final Estimate.

Article 31. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part, the Engineer shall so certify, in writing, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract. On the expiration of ninety (90) days after the acceptance by the Commission of the work herein agreed to be done by the Contractor, and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller, signed by the Engineer and the Commission, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the last-mentioned certificate, all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and also any sum or all such sums of money as by the terms hereof the City is or may be authorized to reserve or retain; provided, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work, should the said certificate be found, or known to be, inconsistent with the terms of this contract, or otherwise improperly given. All prior certificates upon which partial payments may have been

made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based.

Interest in Case of Delayed Payments.

Article 32. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article 30, in the case of partial payment, or Article 31, in the case of final payment, the City shall pay the Contractor interest on such amount at the rate of four and one-half (4½) per cent. per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. The term for which interest shall be paid shall be reckoned, in the case of a partial payment from the thirtieth day after the certification of such voucher by the Commission, and in the case of a final payment from the ninetieth day after the acceptance of the work by the Commission, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller for payment in the usual manner.

No Estoppel.

Article 33. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing the true and correct amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article 34. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article 35. The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the Commission, the City or of any person relating to or affecting the work, except only the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claims for Damage. Statements of Damage to be Filed With Engineer.

Article 36. If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Lien Law.

Article 37. If at any time before or within thirty days after the whole work agreed herein to be performed and all the labor and material herein agreed to be delivered have been performed or delivered or completed and accepted by the City any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller of the City any such notice as is described in the Lien Law, the City shall retain until the discharge thereof from moneys under its control so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice.

VI.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

Article 38. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures or to navigation; and the Contractor will at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures or to navigation. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part, or on the part of his agents, servants or employees and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage. Where the work is required to be done by tunneling the same admission and covenant shall also apply to the foundations, walls and other parts of buildings and to any railroad track or structure, subway, street, conduit, pipe, sewer or other structure or surface over the tunnel. But this admission and covenant shall not apply to the foundations, walls or other parts of buildings or any part thereof acquired by the City and which the Engineer may determine should be razed.

Traffic to be Maintained.

Article 39. The Contractor shall, during the performance of the work, safely maintain the traffic on streets, avenues, highways, parks, waters or other public places as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

Article 40. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor or May be Retained to Meet Claims.

Article 41. In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property as aforesaid, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned, the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard

to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or any part thereof, for a time not exceeding the time when such claims would be barred under the existing Statute of Limitations, as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article 42. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above.

Damage to Works During Construction.

Article 43. All risk of loss or damage to the works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VII.—CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE BY INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article 44. The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances.

Claims for Infringement of Patents.

Article 45. The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

Article 46. The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the works free of interference or right of interference; provided, however, that this covenant shall not apply to or include any damages for physical injuries to property referred to in chapter 6 hereof, whether or not compensation for such damages be awarded in a condemnation proceeding. If compensation for any such damages shall be included in an award in condemnation proceedings the Contractor shall, upon demand, promptly reimburse the City for any payments made by it for such purposes.

VIII.—TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article 47. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within forty-two (42) months from the date of the delivery of this contract.

Price to be Reduced for Delay.

Article 48. In the event of delay in completion of the works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due) there shall be deducted and retained by the City the following percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly from any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained by the City and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any subcontractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended by resolution of the Commission to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

Article 49. But no injunction, strike or interference of public authority shall be ground for such extension, except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel of the Commission or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Article 50. The time stipulated within which to complete the works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article 51. The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor

for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

Article 52. In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three (3) months from the date of the delivery of such notice the Commission shall allow the Contractor so much additional time wherein to perform and complete this contract on his part as the Engineer shall certify in writing to be just, but no allowance by way of damages shall be made for such delay.

Extensions Not Cumulative.

Article 53. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article 54. The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

IX.—Remedies in Case of Contractor's Default.

Article 55. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission may

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this article of the contract. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the bond. And

Or May Bring Suit.

(3) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

X.—MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article 56. No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and by the sureties upon his bond; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

Article 57. No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contractor Not to Assign, Sublet, Etc.

Article 58. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article 59. In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

Article 60. The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 36 of the Laws of 1909. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency, caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of the City, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any subcontractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void

and of no effect, unless the Contractor shall comply with the provisions of this section. In obedience to the requirements of section 14 of the Labor Law, it is further provided that if the provisions of the said section 14 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article 61. It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted or is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

Article 62. If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect and shall, upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Contractor has caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.
By...................., Chairman.

Attest:
...................., Secretary.

State of New York, County of New York, ss.:

On the .... day of ...., 1910, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally came .... to me known and known to me to be the individual.. described in and who executed the foregoing instrument, and ..he.. duly acknowledged to me that ..he.. executed the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally appeared ...., to me known, who, being by me first duly sworn, did depose and say: That he resided in ...., in the State of........; that he is .... of ...., the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said Company, and that he signed his name thereto by like authority.

FORM OF CONTRACTOR'S BOND.

Route No. 5, Section No. 8.

Know All Men by These Presents, That .... of ...., hereinafter called the Contractor, and .... and ...., hereinafter called the Sureties, are

held and firmly bound unto The City of New York, hereinafter called the City, in the sum of .... dollars ($........), lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said sum of .... dollars ($........), and each of the said Sureties to be so held and bound only for a portion of said sum as follows:

The said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........).

In Witness Whereof, The Contractor and the Sureties have hereunto set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this .... day of ...., 1910.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a Rapid Transit Railroad known as Section 8 of Route 5, in ...., and extending from .... street to .... street, in the Borough of ...., in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof, now therefore,

The condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defense upon this Bond; that the Sureties shall not set up or have any defense upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

ROUTE 5, SECTION 1, BATTERY PARK TO DEY STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 1.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned† ....
.... do..
hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form

---

*The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

annexed hereto with The City of New York for the construction of section 1 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	160,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	143,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........	....	61,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	. ..
	(b) For buildings from seven to twelve stories in height, per front foot........	....	400	....
	(c) For buildings over twelve stories in height, per front foot..................	....	300	....
6.	For concrete masonry, in place, per cubic yard	....	70,500	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	10,300	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	770	....
12.	For timber piles, in place, and prepared, per lineal foot........................	....	5,000	....
13.	For timber foundations, placed and fastened, per thousand feet, B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,200	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	80,000	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	4,000	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	12,200	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,430	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,800	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	238,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	5,500	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	4,400	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	660	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	10	....
26.	For wire mesh in place, per pound........	....	10,600	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	9,000	....
29.	For vault lights, in place, per square foot..	....	4,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard...................	....	7,140	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	14,520	....
31.	For park surface restored (all classes), per square yard	....	20,800	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought iron, per lineal foot..........	....	18,900	....
	(b) For one and one-half inch (1½ inch) wrought iron, per lineal foot..........	....	3,230	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) for two inch (2 inch) wrought iron, per lineal foot........................	....	1,730	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	6,600	....
33.	For cast-iron outlet boxes in place, in stations, each	....	1,030	....
34.	For six inch (6 inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot......	....	140	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,250	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	720	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch per lineal foot	....	*2,168	....
47.	For 4 foot by 2 foot 8 inch per lineal foot.	....	*452	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	5,500	....
	(b) For horse railroads, per lineal foot of single track	....	240	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column........................	....	120	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications. Water and Gas Pipes—Items 77 to 108. Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	760	....
82.	For 12-inch water pipe, per lineal foot....	....	730	....
84.	For 20-inch water pipe, per lineal foot....	....	680	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot........	....	280	....
91.	For 6-inch gas pipe, per lineal foot.......	....	610	....
96.	For 20-inch gas pipe, per lineal foot......	....	90	....

---

*Balance remaining after deducting portion of sewer included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	25	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....
	Steam Pipes, Air Pipes and Mail Tubes—Items 109 *to* 126. *Steam Pipes—Items* 109 *to* 120.			
	For steam pipe, in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	30	....
113.	For 15-inch steam pipe, per lineal foot....	....	830	....
	New Steel-welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot....	....	30	....
119.	For 15-inch steam pipe, per lineal foot....	....	200	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	45,900	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room .... on the ...... floor of the building .... in the Borough of ...., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be ac-

cepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District, is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am† the proposing contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2, DEY STREET TO WALKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	256,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	142,300	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	3,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	100	....
4.	*For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	3,000	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	1,300	....
	(c) For buildings over twelve stories in height, per front foot	....	750	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	23,300	....
6.	For concrete masonry in place, per cubic yard	....	84,800	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	6,220	....
8.	For rubble stone masonry in place, per cubic yard	....	3,250	....
9.	For brick masonry, in place, per cubic yard.	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	2,360	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	4,000	....
12.	For timber piles, in place, and prepared, per linear foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B.M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	45,500	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,300	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	7,300	....

*Not to include underpinning, if any, in connection with construction of iron-lined tunnel portion.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	210	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,600	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	365,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	6,700	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,850	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,240	....
22.	For cast-iron tunnel lining, in place in the work, including the placing of bolts and washers and caulking of joints, etc., per ton of two thousand pounds	....	5,300	....
23.	For steel bolts and washers for tunnel lining, per ton of two thousand pounds	....	75	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	20	....
26.	For wire mesh, in place, per pound	....	13,620	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per linear foot	....	9,130	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	10,310	....
29.	For vault lights, in place, per square foot	....	2,900	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard	....	8,065	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	18,695	....
31.	For park surface restored (all classes), per square yard	....	1,300	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought-iron, per lineal foot	....	31,300	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two-inch (2 inch) wrought-iron, per lineal foot	....	830	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place in stations, each	....	1,160	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	380	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,760	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3-foot 6-inch by 2-foot 4-inch, per lineal foot	....	*185	....
47.	For 4-foot by 2-foot 8-inch, per lineal foot	....	(†95)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per linear foot of single track	....	6,750	....
	(b) For horse railroads, per linear foot of single track	....	770	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	6	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications. Water and Gas Pipes—Items 77 to 108. Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
82.	For 4-inch water pipe, per lineal foot	....	500	....
85.	For 24-inch water pipe, per lineal foot	....	1,200	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
94.	For 12-inch gas pipe, per lineal foot	....	500	....
95.	For 16-inch gas pipe, per lineal foot	....	500	....
96.	For 20-inch gas pipe, per lineal foot	....	500	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	50	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.........	....	13	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot...................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot...................	....	200	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot...................	....	180	....
106.	For 24-inch high pressure fire system water pipe, per lineal foot...................	....	120	....
	New Cast-Iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	15	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	5	....
	Steam Pipes—Items 109 *to* 120.			
	For steam pipe in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	500	....
	New Steel-Welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot.....	....	100	....
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot....................	....	31,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of six hundred thousand dollars ($600,000), in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room ...., on the .... floor of the building ...., in the Borough

of ...., in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the Contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

......................., being duly sworn, says: I am†.......................
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2-A, WALKER STREET TO HOWARD STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2-A.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2-A of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	28,070	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	59,370	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	100	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot...............	....	318	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	70	....
	(c) For buildings over twelve stories in height, per front foot................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	18,180	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2,625	....
8.	For rubble stone masonry in place, per cubic yard	....	500	....
9.	For brick masonry, in place, per cubic yard	....	230	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	105	....
12.	For timber piles, in place, and prepared, per lineal foot.......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,070	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	20,625	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,255	....
	(d) For 4-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	120	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	3,255	....
17.	For vitrified or cast-iron drain pipe in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	800	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	625	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	45,025	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	2,275	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.................	....	1,945	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	23	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	10	....
26.	For wire mesh, in place, per pound......	....	4,100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	900	....
29.	For vault lights, in place, per square foot.	....	2,025	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard..................	....	2,442	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	2,798	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	9,640	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	520	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot......................	....	260	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	578	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	770	....
	SEWERS—ITEMS 37 TO 74.			
	Egg-Shaped Brick or Concrete Sewers, Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot..........................	....	(†190)	....
47.	For 4 foot 0 inch by 2 foot 8 inch, per lineal foot..........................	....	(†230)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete, Items 52 *to* 66.			
54.	For 4 foot 3 inch, per lineal foot..........	....	(†42)	....
55.	For 4 foot 9 inch, per lineal foot..........	....	(†208)	....
57.	For 5 foot 6 inch, per lineal foot..........	....	(†68)	....
	SURFACE AND SUBSURFACE STRUCTURES, ITEMS 75 AND 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	1,280	....
	(b) For horse railroads, per lineal foot of single track.......................	....	100	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	500	....
86.	For 30-inch water pipe, per lineal foot....	....	400	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	960	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.................	....	21	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106. For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot........	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot........	....	490	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot........	....	150	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds........	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot........	....	11,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of two hundred and fifty thousand dollars ($250,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No................on the................floor of the building No..........................in the Borough of.................................. in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the

said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.............

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of.............., 1910.

ROUTE 5, SECTION 3, HOWARD STREET TO BLEECKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 3.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 3 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the............ ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	172,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	40,500	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	10,400	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	3,700	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,700	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	2,200	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,230	....
12.	For timber piles, in place, and prepared, per lineal foot......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	16,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	3,700	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	3,060	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	1,460	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	207,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	2,560	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	780	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,530	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	10	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	6,400	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	3,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,200	....
29.	For vault lights, in place, per square foot	....	5,000	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein or thereon, per square yard	....	9,390	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	14,240	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,600	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot	....	1,000	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	520	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	....	....
33.	For cast-iron outlet boxes in place in stations, each	....	440	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	160	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,272	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	543	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	283	....
	Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	*554	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	484	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
53.	For 4 foot 0 inch, per lineal foot..........	....	1,145	....
54.	For 4 foot 3 inch, per lineal foot..........	....	*284	....
	SURFACE AND SUBSURFACE STRUCTURES. ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	5,470	....
	(b) For horse railroads, per lineal foot of single track......................	....	720	....
	PIPES IN STREETS—ITEMS 77 *to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	600	....
86.	For 30-inch water pipe, per lineal foot..	....	800	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	32	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	8	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot..................	....	100	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
103.	For 12-inch high pressure fire system water pipe, per lineal foot....................	....	410	....
105.	For 20-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	10	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	42,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate

as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

Route 5, Section 4, Bleecker Street to 14th Street.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 4.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 4 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	181,400	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......................	....	14,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	25,700	....
4.	For underpinning buildings, including all incidental work and material per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	2,100	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,600	....
	(c) For buildings over twelve stories in height, per front foot.................	....	70	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	33,000	....
6.	For concrete masonry, in place, per cubic yard	....	46,400	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,200	....
8.	For rubble stone masonry in place, per cubic yard	....	900	....
9.	For brick masonry, in place, per cubic yard	....	1,300	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard.................	....	1,700	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,700	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	9,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,320	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,330	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	4,420	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	437,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,940	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds..................	....	1,750	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,250	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	16	....
26.	For wire mesh, in place, per pound.......	....	6,030	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,140	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	6,200	....
29.	For vault lights, in place, per square foot..	....	900	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	6,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,470	....
31.	For park surface restored (all classes), per square yard	....	1,350	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	4,500	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	570	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot........................	....	310	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place in stations, each	....	242	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	25	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,134	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	170	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,978	....
48	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	228	....
	SURFACE AND SUBSURFACE STRUCTURES—*Items* 75 *and* 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	4,800	....
	(b) For horse railroads, per lineal foot of single track	....	150	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	530	....
82.	For 12-inch water pipe, per lineal foot....	....	1,560	....
87.	For 36-inch water pipe, per lineal foot....	....	2,300	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	130	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,800	....
92.	For 8-inch gas pipe, per lineal foot......	....	1,070	....
94.	For 12-inch gas pipe, per lineal foot......	....	270	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	130	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	40	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 to 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot....................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot..............	....	90	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 and 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	49,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City damages by it sustained by reason of such failure of

the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

................................., being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 5, 14TH STREET TO 26TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 5.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡ ....
.... do..
hereby, in pursuance to the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 5 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quan-

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

tities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	106,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	17,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......	....	21,800	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	3,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings, less than seven stories in height, per front foot..............	....	400	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	75,300	....
6.	For concrete masonry, in place, per cubic yard	....	37,800	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	620	....
8.	For rubble stone masonry in place, per cubic yard	....	350	....
9.	For brick masonry, in place, per cubic yard.	....	3,100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard.................	....	1,400	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	2,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,500	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	5,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	5,600	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	770	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,600	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	9,000	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	525,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	270	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,150	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	130	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes, in place, per ton of two thousand pounds	....	15	....
26.	For wire mesh, in place, per pound.......	....	1,400	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,100	....
28.	For steel gratings, for ventilation, in place, including frames, etc., per square foot..	....	8,300	....
29.	For vault lights, in place, per square foot.	....	5,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard................	....	5,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,050	....
31.	For park surface restored (all classes), per square yard......	....	1,000	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought iron, per lineal foot..........	....	15,000	....
	(b) For one and one-half inch (1½ inch) wrought-iron per lineal foot............	....	450	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two inch (2 inch) wrought-iron, per lineal foot........................	....	230	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	4,000	....
33.	For cast-iron outlet boxes in place in station, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	40	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,738	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	280	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	4	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,465	....
47.	For 4 foot by 2 foot 8 inch, per lineal foot	....	248	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	240	....
49.	For 4 foot 6 inch by 3 foot, per lineal foot	....	242	....
50.	For 4 feet 9 inches by 3 feet 2 inches per lineal foot	....	246	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
52.	For 3 feet 9 inches, per lineal foot........	....	264	....
60.	For 6 feet 0 inch, per lineal foot........	....	1,250	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	2,300	....
	(b) For horse railroads, per lineal foot of single track	....	200	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	460	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,490	....
92.	For 8-inch gas pipe, per lineal foot......	....	720	....
94.	For 12-inch gas pipe, per lineal foot......	....	580	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	20	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	5	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	86,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:..

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No...............on the...................floor of the building No........................in the Borough of.............................. in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 6, 26TH STREET TO 40TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 6.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 6 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the.......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	73,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	500	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	37,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	116,200	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	27,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	340	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	30	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation (except tunneling sewers), including disposal of material, timbering, etc., per cubic yard	....	85,000	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard	....	2,810	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	370	....
8.	For rubble stone masonry in place, per cubic yard	....	1,700	....
9.	For brick masonry, in place, per cubic yard	....	1,610	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	880	....
11.	For grout of Portland cement, per barrel of Portland cement used............	....	2,500	....
13.	For timber foundations, placed and fastened, per thousand ft. B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,100	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	4,810	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	6,300	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	650	....
17.	For vitrified or cast iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	5,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,200	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	555,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,770	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,710	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	610	....
24.	For cast iron columns erected and painted, per ton of two thousand pounds........	....	60	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	15	....
26.	For wire mesh, in place, per pound......	....	8,200	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,900	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,100	....
29.	For vault lights, in place, per square foot	....	6,400	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	3,170	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	19,630	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	12,000	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	900	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	460	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
33.	For cast-iron outlet boxes in place in stations, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	60	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	720	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,055	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	390	....
47.	For 4 feet 0 inch by 2 feet 8 inches, per lineal foot	....	†(60)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
57.	For 5 feet 6 inches per lineal foot	....	1,080	....
58.	For 5 feet 6 inches in tunnel, per lineal foot	....	1,280	....
60.	For 6 feet 0 inch per lineal foot	....	1,160	....
64.	For 8 feet 0 inch per lineal foot	....	420	....
66.	For 9 feet 6 inches per lineal foot	....	1,935	....
	Sewers of Special Forms—Items 67 to 72.			
71.	For triple section, per lineal foot	....	102	....
72.	For 4 feet 0 inch wooden barrel, per lineal foot	....	336	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,800	....
	(b) For horse railroads, per lineal foot of single track	....	270	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	1,230	....

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	160	....
91.	For 6-inch gas pipe, per lineal foot.......	....	830	....
92.	For 8-inch gas pipe, per lineal foot......	....	880	....
94.	For 12-inch gas pipe, per lineal foot......	....	1,000	....
95.	For 16-inch gas pipe, per lineal foot......	....	110	....
96.	For 20-inch gas pipe, per lineal foot......	....	230	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	27	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	7	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot........	....	250	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	103,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the ...... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 7, 40TH STREET TO 53D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 7.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, copy of form of contract, copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 7 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the........................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	125,600	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	6,300	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	221,000	....
3a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	5,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	1,284	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	145	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation (except tunneling for sewers), including disposal of material, timbering, etc., per cubic yard.....	....	17,700	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard....................	....	565	....
6.	For concrete masonry, in place, per cubic yard	....	54,200	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,240	....
8.	For rubble stone masonry in place, per cubic yard	....	3,200	....
9.	For brick masonry, in place, per cubic yard.	....	800	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	230	....
11.	For grout of Portland cement, per barrel of Portland cement used................	....	500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,250	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard............	....	5,535	....
	(b) For 2-ply, per square yard............	....	100	....
	(c) For 3-ply, per square yard............	....	10,840	....
	(d) For 4-ply, per square yard............	....	100	....
	(e) For 5-ply, per square yard............	....	100	....
	(f) For 6-ply, per square yard............	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	1,020	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,500	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,570	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	609,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	4,390	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	380	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	18	....
26.	For wire mesh, in place, per pound	....	5,900	....
27.	For one and one half inch (1½-inch.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	9,783	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	10,100	....
29.	For vault lights, in place, per square foot	....	8,150	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	9,970	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	15,430	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	23,100	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	1,070	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot	....	575	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	6,610	....
33.	For cast-iron outlet boxes in place in stations, each	....	994	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	440	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,887	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,044	....
47.	For 4 feet 0 inches x 2 feet 8 inches per lineal foot	....	806	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
53.	For 4 feet 0 inches per lineal foot	....	300	....
58.	For 5 feet 6 inches, in tunnel, per lineal foot	....	257	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	7,192	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	4	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	800	....
82.	For 12-inch water pipe, per lineal foot	....	340	....
84.	For 20-inch water pipe, per lineal foot	....	700	....
86.	For 30-inch water pipe, per lineal foot	....	140	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	360	....
91.	For 6-inch gas pipe, per lineal foot	....	200	....
92.	For 8-inch gas pipe, per lineal foot	....	540	....
94.	For 12-inch gas pipe, per lineal foot	....	270	....
95.	For 16-inch gas pipe, per lineal foot	....	470	....
96.	For 20-inch gas pipe, per lineal foot	....	180	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	10	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	130	....
122.	For 8-inch air pipe, per lineal foot........	....	500	....
123.	For new 6-inch air pipe, delivered on the work, per lineal foot..................	....	30	....
124.	For new 8-inch air pipe delivered on the work, per lineal foot.................	....	100	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,900	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	10	....
	DUCTS IN STREETS			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	106,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of......................... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any

longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially desposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....................................being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 8, 53D STREET TO 67TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 8.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 8 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons, strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say " (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A, B. C, D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	172,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	24,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	54,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard............................	....	2,200	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	1,743	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	78,900	....
6.	For concrete masonry, in place, per cubic yard	....	45,100	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	430	....
8.	For rubble stone masonry in place, per cubic yard	....	3,750	....
9.	For brick masonry, in place, per cubic yard.	....	3,480	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...................	....	470	....
11.	For grout of Portland cement, per barrel of Portland cement used................	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	3,050	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	7,600	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	430	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	11,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	569,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	1,417	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	760	....
21.	For steel rods and bars built in concrete per ton of two thousand pounds	....	1,305	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound	....	1,370	....
27.	For one and one half-inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,758	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,560	....
29.	For vault lights, in place, per square foot.	....	5,600	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	8,710	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	17,190	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,865	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	706	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	380	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place, in stations, each	....	494	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	90	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,596	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,758	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,863	....
47.	For 4 feet 0 inch by 2 feet 8 inches per lineal foot	....	342	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
59.	For 5 feet 9 inches per lineal foot........	....	268	....
60.	For 6 feet 0 inch per lineal foot........	....	260	....
63.	For 7 feet 0 inch per lineal foot........	....	870	....
65.	For 8 feet 9 inches per lineal foot........	....	520	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	7,624	....
	(b) For horse railroads, per lineal foot of single track.......................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	680	....
84.	For 20-inch water pipe, per lineal foot....	....	60	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot........	....	400	....
91.	For 6-inch gas pipe, per lineal foot....	....	800	....
92.	For 8-inch gas pipe, per lineal foot....	....	900	....
95.	For 16-inch gas pipe, per lineal foot....	....	60	....
96.	For 20-inch gas pipe, per lineal foot....	....	1,000	....
98.	For 30-inch gas pipe, per lineal foot....	....	250	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	36	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	9	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot........	....	550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
124.	For new 8-inch air pipe, delivered on the work, per lineal foot..................	....	100	....
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	121,000	....

(2) If this Proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:
............................., being duly sworn, says: I am†..................
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.
Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 9, 67TH STREET TO 79TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 9.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 9 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	101,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	18,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	48,400	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	500	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	350	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	60,900	....
6.	For concrete masonry in place, per cubic yard	....	36,360	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard..	....	900	....
8	For rubble stone masonry in place, per cubic yard	....	4,650	....
9.	For brick, masonry, in place, per cubic yard	....	2,740	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	525	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	4,860	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	7,950	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	824	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,490	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,540	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	491,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	994	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	695	....
21.	For steel rods and bars built in concrete,, per ton of two thousand pounds..	....	1,017	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound.......	....	1,300	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	5,580	....
29.	For vault lights, in place, per square foot	....	2,620	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard..............	....	4,790	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,760	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot...........	....	14,045	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	478	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot	....	256	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	612	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	300	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,800	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	530	....
42.	For cast-iron sewer pipe (straight pipe), in place in the work, per ton of two thousand pounds	....	12	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,250	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
60.	For 6 feet 0 inch per lineal foot..........	....	1,200	....
62.	For 6 feet 6 inches per lineal foot........	....	240	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports (if required and added and not including additional vaults if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.........................	....	6,196	....
	(b) For horse railroads, per lineal foot of single track........................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	330	....
82.	For 12-inch water pipe, per lineal foot....	....	1,050	....
83.	For 16-inch water pipe, per lineal feet....	....	100	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	330	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,200	....
92.	For 8-inch gas pipe, per lineal foot......	....	280	....
94.	For 12-inch gas pipe, per lineal foot......	....	290	....
96.	For 20-inch gas pipe, per lineal foot......	....	530	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	30	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	8	....
	Air Pipes—Items 121 to 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per linear foot......	....	410	....
124.	For new 8-inch air pipe, delivered on the work, per linear foot..................	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	170,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of three hundred thousand dollars ($300,000), in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No.........., on the...... floor of the building No............. in the Borough of.............., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that the Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission, to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.........................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am†

....

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of.................., 1910.

ROUTE 5, SECTION 10, 79TH STREET TO 93D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad

(Route 5, Section 10.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..

....do..

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 10 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard...................... ..	....	44,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard...........................	....	2,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	150,100	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	700	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..;" if a corporation, say, "the (President or other officer duly authorized) of the....... ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	910	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	100	....
	(c) For buildings over twelve stories in height, per front foot..................	....	..	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	91,800	....
6.	For concrete masonry, in place, per cubic yard	....	49,540	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	260	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	1,940	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	65	....
11.	For grout of Portland cement, per barrel of Portland cement used...............	....	2,500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,000	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	5,820	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	4,820	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	595	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	4,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	..	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	10,300	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	576,300	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds.............	....	2,655	....

Item	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,574	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	588	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound	....	6,970	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	14,968	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	6,070	....
29.	For vault lights, in place, per square foot	....	234	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	4,130	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	8,340	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	9,065	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	908	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	477	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	466	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	75	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,985	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	25	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
44.	For 3 feet 0 inch x 2 feet 0 inch per lineal foot	....	†(80)	....
45.	For 3 feet 6 inches x 2 feet 4 inches per lineal foot	....	95	....
47.	For 4 feet 0 inch x 2 feet 8 inches per lineal foot	....	†(210)	....
51.	For 5 feet 2 inches x 3 feet 5 inches per lineal foot	....	†(70)	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	3,900	....
	(b) For horse railroads, per lineal foot of single track	....	..	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108 *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot......	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	120	....
82.	For 12-inch water pipe, per lineal foot....	....	460	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	200	....
91.	For 6-inch gas pipe, per lineal foot........	....	540	....
92.	For 8-inch gas pipe, per lineal foot......	....	350	....
94.	For 12-inch gas pipe, per lineal foot......	....	100	....
96.	For 20-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipes—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	12	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	150	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot...................	....	19,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pur-

suant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..........................on the........................ floor of the building No...in the Borough of ....in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of the City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.: ....
....being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this......................day of...................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the...... ....Company."

ROUTE 5, SECTION 11, 93RD STREET TO 106TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 11.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..

.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with the City of New York for the construction of Section 11 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1..	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	52,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	22,700	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	3,600	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	81,300	....
3-a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	2,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....

---

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	82,900	....
6.	For concrete masonry, in place, per cubic yard	....	39,170	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2.060	....
8.	For rubble stone masonry in place, per cubic yard	....	2,270	....
9.	For brick masonry, in place, per cubic yard	....	1,880	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	1,340	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,500	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,760	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	17,850	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	8,800	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	2,500	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,340	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,200	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,730	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	409,480	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	1,480	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,480	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	300	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	7	....
26.	For wire mesh, in place, per pound......	....	6,640	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,960	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,535	....
29.	For vault lights, in place, per square foot	....	4,420	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard....................	....	5,570	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	9,470	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot............	....	15,260	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot...........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	587	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	250	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,405	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	51	....
	Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*975	....
46.	For 3 feet 9 inches by 2 feet 6 inches, per lineal foot	....	*308	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc.,			

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	3,560	....
	(b) For horse railroads, per lineal foot of single track	....	†40	....
	PIPES IN STREETS—ITEMS 77 *to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	580	....
82.	For 12-inch water pipe, per lineal foot....	....	660	....
88.	For 48-inch water pipe, per lineal foot....	....	170	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	100	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,260	....
92.	For 8-inch gas pipe, per lineal foot......	....	930	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			......
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	29	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.........	....	7	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot................	....	38,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be

---

†Yard supply tracks for elevated railroad.

delivered at Room No................on the..................floor of the building No......................in the Borough of................................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in accordance to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:
....being duly sworn, says: I am†...
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.
Sworn to before me this..................day of.............................., 1910

ROUTE 5, SECTION 12, 106TH STREET TO 118TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 12.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, Copy of form of contract. Copy of form of bond.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of...; if a corporation, say "the (President or other officer duly authorized) of the.........
....Company."

To the Public Service Commission for the First District:

1. The undersigned‡ .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 12 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	126,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	93,000	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	11,300	....
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	12,820	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	4,680	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,535	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,480	....
8.	For rubble stone masonry in place, per cubic yard	....	874	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...............	....	1,212	....

---

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,450	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	37,870	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	5,300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic in place, per cubic yard........	....	6,053	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,634	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	685	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	2,225	....
18.	For tunnel ducts, in place as required by Section 305 of the specifications, per duct foot	....	319,490	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds..........	....	754	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds.................	....	4,163	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	95	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound......	....	12,760	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,320	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	8,440	....
29.	For vault lights, in place, per square foot	....	8,900	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard.............	....	8,230	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	17,330	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	12,455	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot......................	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	720	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	275	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,418	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	568	....
43.	For cast-iron sewer pipe (special casting) in place in the work, per ton of two thousand pounds	....	130	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,296	....
	Additional Sewer Construction—Items 73 and 74.			
73.	For six (6) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,000 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	....
74.	For eight (8) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,800 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required			

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
	and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	6,585	....
	(b) For horse railroads, per lineal foot of single track	....	310	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	440	....
82.	For 12-inch water pipe, per lineal foot....	....	1,480	....
84.	For 20-inch water pipe, per lineal foot....	....	190	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	830	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,530	....
92.	For 8-inch gas pipe, per lineal foot......	....	550	....
95.	For 16-inch gas pipe, per lineal foot......	....	130	....
96.	For 20-inch gas pipe, per lineal foot....	....	190	....
97.	For 24-inch gas pipe, per lineal foot......	....	100	....
99.	For 36-inch gas pipe, per lineal foot......	....	130	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	10	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot................	....	83,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..................on the..............floor in the building No.....................in the Borough of..........................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates. or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of......................., 1910.

ROUTE 5, SECTION 13, 118TH STREET TO 129TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 13.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..
.... do..

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the......... ....Company."

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 13 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	79,320	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	51,360	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	2,400	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	207,460	....
3-a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	260	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	3,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	95	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	50,215	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	3,570	....
8.	For rubble stone masonry in place, per cubic yard	....	1,200	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	450	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.......	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard..........................	....	2,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	27,360	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	3,190	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	590	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	4,660	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	1,102	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	6,790	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	291,770	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds........	....	5,585	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,905	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.......	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound......	....	21,320	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,260	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,220	....
29.	For vault lights, in place, per square foot	....	3,960	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard..............	....	8,940	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,730	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	4,770	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	820	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	410	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes in place in stations, each	....	480	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	245	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*514	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	*270	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	10	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*677	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,980	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	1,670	....
82.	For 12-inch water pipe, per lineal foot	....	1,420	....
84.	For 20-inch water pipe, per lineal foot	....	120	....
87.	For 36-inch water pipe, per lineal foot	....	120	....

*Balance remaining after deducting portion of sewer included in Railroad construction and under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
89.	For 3-inch gas pipe, per lineal foot......	....	170	....
90.	For 4-inch gas pipe, per lineal foot......	....	860	....
91.	For 6-inch gas pipe, per lineal foot......	....	3,430	....
92	For 8-inch gas pipe, per lineal foot......	....	2,370	....
93.	For 10-inch gas pipe, per lineal foot......	....	230	....
94.	For 12-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	53	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	13	....
	Air Pipes—Items 121 to 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot......	....	210	....
	Mail Tubes—Items 125 and 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,200	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	6	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	63,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No......., on the........floor of the building No............, in the Borough of..........., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within

such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the................................, 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..........day of.........., 1910.

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE H.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 14.)

Notice.—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡ .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "H" and to

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of....................................."; if a corporation, say "the (President or other officer duly authorized) of the.......................... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co.. composed of A., B. C. D. etc." (giving the names of all partners).

furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
*35.	For tube tunnel under Harlem River as per type "H", per lineal foot of four-track tube complete	....	1,110	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	47,970	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	156,650	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	24,480	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	850	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	38,600	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,140	....
8.	For rubble stone masonry in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...............	....	100	....
†12.	For timber piles, in place, and prepared, per lineal foot	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand ft B. M........	....	2M	....

*See note under Item 12 of Approaches.

†The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications...

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	44,830	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	310	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	7,380	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	179,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	6,200	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	690	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound......	....	16,340	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,330	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface, restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	7,095	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot............................	....	‡50	....
47.	For 4 feet 2 inches by 2 feet 8 inches per lineal foot	....	†(60)	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot.....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.................	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot................	....	2,000	....

---

‡Balance remaining after deducting portions of sewer included in railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the.............floor of the building No............in the Borough of...................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this...........day of................, 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say, "the (President or other officer duly authorized) of the.................. ....Company."

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE K.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5. Section 14.)

Notice—Sums of money must be written in words and also in figures, except in schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned* ....
do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "K," and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Type K—Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
†36.	For tube tunnel under Harlem River as per type "K," per lineal foot of four-track tube complete	....	1,080	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........................	....	49,510	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........................	....	156,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......	....	27,620	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	850	....

---

*The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

†See note under Item 12 of Approaches

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	39,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,130	....
8.	For rubble stone masonry, in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	100	....
‡12.	For timber piles, in place, and prepared, per lineal foot........................	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	45,000	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,420	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	180,420	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	6,620	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	580	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....

‡The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
25.	For miscellaneous iron castings other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound.......	....	17.380	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,460	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	7,355	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*50	....
47.	For 4 feet 2 inches by 2 feet 8 inches, per lineal foot	....	†(60)	......
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	.. ..	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of 2,000 pounds	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot....................	....	2,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the...........floor of the building.................in the Borough of..................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................, 1910.

Affidavit of Verification

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of................, 1910.

ROUTE 5, SECTION 15, MOTT AVENUE TO 157TH STREET AND TO ALEXANDER AVENUE.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 15.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..

do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 15 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final, and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	106,630	....

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, a member of the firm of.."; if a corporation, say, "the (President or other officer duly authorized) of the..Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A., B. & Co., composed of A., B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	71,900	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	16,900	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	265,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	1,200	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	10,460	....
6.	For concrete masonry, in place, per cubic yard	....	78,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,060	....
8.	For rubble stone masonry, in place, per cubic yard	....	360	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	3,200	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	500	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	5,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	37,400	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	8,150	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	6,100	....
17.	For vitrified or cast-iron drain pipes, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	210	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	12,400	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	508,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	5,060	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,130	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	2,050	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	32	....
26.	For wire mesh, in place, per pound	....	25,660	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,440	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,130	....
29.	For vault lights, in place, per square foot	....	8,700	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	11,800	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	28,800	....
31.	For park surface restored (all classes), per square yard	....	3,180	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	25,000	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	650	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	325	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes, in place, in stations, each	....	820	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
37.	For 12-inch vitrified pipe sewer, per lineal foot	....	2,900	....
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*2,564	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	†(1,132)	....
40.	For 20-inch vitrified pipe sewer, per lineal foot	....	†400	....
41.	For 24-inch vitrified pipe sewer, per lineal foot	....	*102	....
42.	For cast-iron sewer pipe (straight pipe), in place, in the work, per ton of two thousand pounds	....	30	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	960	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
56.	For 5 feet, per lineal foot	....	430	....
	Sewers of Special Forms—Items 67 *to* 72.			
70.	For 7 feet by 12 feet, per lineal foot	....	320	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	4,730	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	8	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called For by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
79.	For 6-inch water pipe, per lineal foot.....	....	1,550	....
82.	For 12-inch water pipe, per lineal foot.....	....	1,350	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes, in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	210	....
92.	For 8-inch gas pipe, per lineal foot.......	....	1,300	....
94.	For 12-inch gas pipe, per lineal foot......	....	180	....
95.	For 16-inch gas pipe, per lineal foot......	....	540	....
96.	For 20-inch gas pipe, per lineal foot......	....	540	....
97.	For 24-inch gas pipe, per lineal foot......	....	760	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	60	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	15	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits, in place, as provided in section 71a of the specifications, per duct foot..................	....	1,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No........, on the........floor of the building No.............in the Borough of................, in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................ 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of............, 1910.

SECTION 10. FROM EAST 79TH STREET, UNDER LEXINGTON AVENUE TO EAST 93D STREET. CONTRACTOR, THE BRADLEY CONTRACTING COMPANY. AMOUNT, $3,253,072.80.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, July 5, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New York and Bradley Contracting Company for the construction at the public expense of Section 10 of Route 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue from East 79th street to East 93d street, in the Borough of Manhattan.

The Public Service Commission for the First District further requests your honorable Board to consent to the said contract herewith transmittted and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract to wit, the sum of three million two hundred and fifty-three thousand and seventy-two dollars and eighty cents ($3,253,072.80); and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad.

And the Public Service Commission for the First District does hereby, pursuant to section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of three million two hundred and fifty-three thousand seventy-two dollars and eighty cents ($3,253,072.80).

In witness whereof, the Public Service Commission for the First District has

caused its official seal to be hereto affixed and attested by its Secretary and these presents to be signed by its Chairman this 5th day of July, 1911.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say, "the (President or other officer duly authorized) of the..Company."

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. WILLCOX, Chairman. [SEAL]

Attest: TRAVIS H. WHITNEY, Secretary.

Route 5, *Section* 10.

After consideration of the bids on Section 10 of Route 5, the following resolution was duly moved and seconded:

Resolved, That this Commission hereby accepts the proposal of Bradley Contracting Company, dated October 27, 1910, for the construction of Section 10 of Route 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue from East 79th street to East 93d street, in the Borough of Manhattan, the aggregate of the unit prices in the proposal amounting to three million two hundred and fifty-three thousand and seventy-two dollars and eighty cents ($3,253,072.80).

Resolved, That the Chairman and the Secretary be and they hereby are authorized on behalf of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment and upon compliance by the said Bradley Contracting Company with the requirements of the invitation to bidders attached to the said proposal.

Resolved, That the Chairman and Secretary be and they hereby are authorized and directed to request the Board of Estimate and Apportionment to consent to the said contract and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of three million two hundred and fifty-three thousand and seventy-two dollars and eighty cents ($3,253,072.80); and also to request the said Board of Estimate and Apportionment to direct the Comptroller of The City of New York to issue the bonds of said City at such rate of interest as the Board of Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad; and also to make request for the authorization of bonds for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of three million two hundred and fifty-three thousand and seventy-two dollars and eighty cents ($3,253,072.80).

Resolved, That the Secretary give notice to the said Bradley Contracting Company that its proposal has been accepted and the contract awarded to it by this Commission, subject to its being consented to by the Board of Estimate and Apportionment, as required by law.

Resolved, That it be referred to Counsel to the Commission to inquire into the sufficiency of the sureties proposed to be given by the said Bradley Contracting Company and in case the sureties named in the proposal of the said Bradley Contracting Company, or any of them, are not approved by the Commission, then to inquire into the sufficiency of any other or substitute sureties and in behalf of the Commission to do any such act as may be necessary and incidental to the furnishing of a proper bond.

Ayes—Commissioners Willcox, McCarroll, Maltbie, Eustis, Cram.

Nays—None.

Carried.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on July 5, 1911, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission this 5th day of July, 1911.

TRAVIS H. WHITNEY, Secretary.

[SEAL]

INVITATION TO CONTRACTORS.

Parts of Lexington Avenue Route.

The City of New York, acting by the Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct portions of a proposed rapid transit railroad in the Boroughs of Manhattan and The Bronx in The City of New York. Proposals may be submitted separately for any one or more of the separate sections of which such railroad consists as hereinafter stated.

The points within the City between which the said several parts are to run and the route or routes to be followed are briefly as follows:

Lexington Avenue Route.

(Route No. 5.)

Section 1 begins under Battery Park and extends thence under Battery place, Greenwich street, Trinity place and Church street to a point about 80 feet north of the centre line of Dey street; with a station in Battery Park, a station at Rector street and a station at Cortlandt and Dey streets.

Section 2 begins at the end of Section 1 and extends thence under Church street, private property, Vesey street, private property, and Broadway to a point under Broadway about 110 feet north of the centre line of Walker street; with a station at Murray and Warren streets.

Section 2-A begins at the end of Section 2 and extends thence under Broadway to a point about on the northerly building line of Howard street. This section includes the Canal street station and also the portion of the Canal street subway lying thereunder.

Section 3 begins at the end of Section 2-A and extends thence under Broadway to a point about midway between Houston and Bleecker streets; with a station at Prince street.

Section 4 begins at the end of Section 3 and extends thence under Broadway, private property and the several cross streets to a point under private property at the southerly line of East 14th street and Irving place; with a station at Astor place and East 8th street.

Section 5 begins at the end of Section 4 and extends thence under Irving place, Gramercy Park and Lexington avenue to a point about 140 feet north of the centre line of East 26th street; with a station at East 14th and East 15th streets and a station at East 23d street.

Section 6 begins at the end of Section 5 and extends thence under Lexington avenue to about the centre line of East 40th street; with a station at East 27th and East 28th streets and a station at East 34th street.

Section 7 begins at the end of Section 6 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 53d street; with a station at East 42d and 43d streets and a station at East 51st street.

Section 8 begins at the end of Section 7 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 67th street; with a station at East 58th and East 59th streets.

Section 9 begins at the end of Section 8 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 79th street; with a station at East 68th and East 69th streets and a station at East 77th street.

Section 10 begins at the end of Section 9 and extends thence under Lexington avenue to a point about 50 feet south of the centre line of East 93d street; with a station at East 86th street.

Section 11 begins at the end of Section 10 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 106th street; with a station at East 96th street and a station at East 102d and East 103d streets.

Section 12 begins at the end of Section 11 and extends thence under Lexington avenue to a point about 115 feet south of the centre line of East 118th street; with a station at East 110th and East 111th streets and a station at East 116th street.

Section 13 begins at the end of Section 12 and extends thence under Lexington avenue to a point about 120 feet south of the centre line of East 129th street; with a station at East 125th street.

Section 14 begins at the end of Section 13 and extends thence under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx, thence under private property and Park avenue to East 135th street. Here the line divides into two branches. The west branch begins at about the centre line of East 135th street and extends thence under private property to a point in private property a distance of about 655 feet from the centre line of East 135th street and about 50 feet west of the centre line of Mott avenue. The east branch extends under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park avenue.

Section 15. This section consists of two branches. The west branch begins at the end of the west branch of Section 14 and extends thence under East 138th street, private property and Mott avenue, Franz Sigel Park, private property and the several cross streets to a point in private property on the easterly side of River avenue about 120 feet south of the south line of East 157th street; with a station at East 138th street and East 149th street. (The portion of this section north of East 151st street is part of the River Avenue Route adopted by the Commission

on the 16th day of June, 1908.) The east branch begins at the end of the east branch of Section 14 and extends thence under Park avenue, private property, Canal Street West and East 138th street to a point in East 138th street about 150 feet easterly of the centre line of Alexander avenue, with a station between 3d and Alexander avenues.

The general plan of construction calls for a subsurface railroad having two tracks between Battery Park and Chambers street in Manhattan, and four tracks from Chambers street, in Manhattan, to 135th street and Park avenue, in the Bronx, with the branches in The Bronx having in the main three tracks each. Turnouts, cross-overs, connections, sidings, loops, etc., will be constructed, all of which are more particularly indicated on the contract drawings.

For Section 14 two plans, designated Type H and Type K, respectively, have been prepared. The bidders for such section may submit a proposal for either or both of such types. After a comparison of the bids the Commission will determine which of such plans shall be adopted.

Bidders for the several sections will not be required to do the station finish work, nor to provide or lay tracks, ties or ballast.

The work of construction under the contract shall include the construction of all necessary sewers and connections, along the route of the railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning where necessary, of all buildings, monuments, surface, subsurface and elevated railroads and other structures, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and the temporary paving and maintenance of roadways.

The method of construction will be partly by trench excavation (under cover, unless otherwise specified in the form of contract or permitted by the Commission), and partly by tunnel, as set forth in the forms of contract.

Bidders must examine the form of contract, specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated, in the printed form of contract and in the contract drawings therein referred to. Printed copies of the forms of contract, bond and contractor's proposal, may be had on application at the office of the Commission, 154 Nassau street, Borough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders by payment of five dollars ($5) for the contract drawings for each section. The printed form of contract and the contract drawings are to be deemed a part of this invitation.

The Commission is informed by the Department of Docks and Ferries that docks and bulkheads along the East River may be available for dumping purposes. Information in regard thereto may be obtained by any intending bidder upon inquiry at the office of the Commission.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The Contractor for any section or sections will be required to complete the work as soon as practicable and within the time hereinafter prescribed for such completion.

Sealed bids or proposals will be received at the office of the Commission at 154 Nassau street, Borough of Manhattan, City of New York, until the 27th day of October, 1910, at twelve (12) o'clock noon, at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

A statement, based upon the estimate of the Engineer, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required for each section, is to be found in the schedules forming a part of the form of Contractor's Proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed: "*Proposal for Constructing Rapid Transit Railroad—Route* 5, *Section* —*," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a separate certified check for each section bid upon, drawn upon a national or state bank or trust company having its principal office in The City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for the amount herein specified for the section for which a proposal is made. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract or contracts will be made by the Commission as soon as practicable after the opening of the proposals.

Bidders whose proposals are otherwise satisfactory, in case the sureties named by them are not approved by the Commission, may substitute in their proposals the names of other sureties approved by the Commission, but such substitution must be made within five days after notice of disapproval, unless this period is extended by the Commission.

A bidder whose proposal shall be accepted shall, in person or by duly authorized representative, attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond for the amount hereinafter stated. The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, ten (10) per cent. of the amount certified from time to time to be due to the Contractor will be retained until the work is fully completed and accepted.

Schedule Indicating Time Allowed for Completion, the Amount of Bond and the Amount of Certified Check for Each of the Several Sections.

Route 5.	Time for Completion, Months.	Amount of Bond.	Amount of Certified Check.
Section 1	42	$500,000 00	$15,000 00
Section 2	42	600,000 00	15,000 00
Section 2A	42	250,000 00	10,000 00
Section 3	42	300,000 00	10,000 00
Section 4	36	300,000 00	10,000 00
Section 5	42	300,000 00	10,000 00
Section 6	42	350,000 00	10,000 00
Section 7	42	350,000 00	10,000 00
Section 8	42	300,000 00	10,000 00
Section 9	42	300,000 00	10,000 00
Section 10	42	300,000 00	10,000 00
Section 11	42	300,000 00	10,000 00
Section 12	42	400,000 00	12,500 00
Section 13	42	400,000 00	12,500 00
Section 14	42	500,000 00	15,000 00
Section 15	42	500,000 00	15,000 00

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case, the Commission will give notice thereof to such defaulting bidder, and the Commission may thereupon proceed to make another contract with such, if any, of the original bidders, as, in the opinion of the Commission, it will be to the best interests of the City to contract with, or may by new advertisement invite further

proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other Contractor over the amount of the bid of such defaulting bidder.

---

*To be filled in with the Section number for which the proposal is made.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, then this Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage by it sustained by reason of such failure, and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

The right to reject any and all bids is reserved.

New York, September 1, 1910.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by WILLIAM R. WILLCOX, Chairman; TRAVIS H. WHITNEY, Secretary.

RAPID TRANSIT RAILROAD.

Contract, Route 5, Section 10.

Agreement, made this............day of................., 1910, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and Bradley Contracting Company of.......... hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual covenants and agreements hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled, "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, the parties do hereby, the City for itself and its successors and the Contractor for itself, its successors and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

Article 1. The Contractor agrees to construct the part hereinafter described of a Rapid Transit Railroad, with its appurtenances. The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

Article 2. The Railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on May 12, 1905, and which, as modified, is known as the Lexington Avenue Route—or Route No. 5. The part to be constructed under this contract consists of

Section 10—79th Street to 93d Street.

Beginning at a point about 70 feet south of the centre line of 79th street, thence under Lexington avenue to a point about 50 feet south of the centre line of 93d street; with a station at East 86th street.

The precise location of the tracks, and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract, and in the detailed drawings and plans hereinafter mentioned.

Statutes Incorporated Herein.

Article 3. This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Article 4. Titles, headings, running headlines and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

Article 5. The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

(1) The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York, under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

(2) The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment, maintenance and operation of Rapid Transit Railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

(3) The word "Contractor" to mean the party of the second part to this contract, and its successors, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they;" the word "him" shall include "her," "it" and "them;" and the word "his" shall include "its," "her" and "their."

"Comptroller."

(4) The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

(5) The word "Engineer" to mean the Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

(6) The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, chapter 429 of the Laws of 1907, chapter 498 of the Laws of 1909, and chapters 205, 504, 505 and 506 of the Laws of 1910, or as heretofore otherwise amended.

"Railroad."

(7) The word "Railroad" to mean the part which the Contractor agrees by this contract to build, together with the station or stations to be built in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(8) The words "the Works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

(9) The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

(10) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice." "Direction."

(11) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor. Address May be Changed. Service Upon Contractor Personally.

Article 6. The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

Article 7. If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Subcontractors.

Article 8. The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of the proposed subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish, the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved by the Commission.

II.—Work to be Done, Price, Etc.

Work to be Done.

Article 9. The Contractor shall do all the work and furnish all the materials, plants, tools and appliances necessary or proper for performing and completing the work of constructing the railroad in the manner and within the time hereinafter specified. He shall complete the railroad and do all the work and furnish all labor and materials in and about the construction of the railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, the said contract drawings may from time to time be altered or modified as hereinafter provided:

Construction Includes Sewer and Other Incidentals.

Article 10. In order to construct the railroad it will be necessary to take up and relay the sidewalk pavement or other surface material, and to lay and maintain a temporary pavement in the roadway, to protect, support and maintain during construction all buildings and other structures, including their foundations, and all elevated and surface and subsurface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins

and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces (except as herein provided in respect of temporary pavements for roadways), adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface and subsurface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform for the prices herein agreed upon.

Prices.

Article 11. The City will pay and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the following prices, to wit:

Schedule of Unit Prices.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of three dollars and fifty cents ($3.50) per cubic yard.

Item 2-A. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of five dollars ($5.00) per cubic yard.

Item 3. For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., the sum of five dollars ($5) per cubic yard.

Item 3-A. For rock excavation for sewers and pipes, including the disposal of it, etc., the sum of six dollars ($6) per cubic yard.

Item 4. For underpinning buildings, including all incidental work and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of one hundred and fifty dollars ($150) per linear front foot of building underpinned.

(b) For buildings from seven (7) to twelve (12) stories in height the sum of two hundred dollars ($200) per linear front foot of building underpinned.

Item 5. For tunnel excavation (except tunneling for sewers), including the disposal of material, timbering, etc., the sum of nine dollars ($9) per cubic yard.

Item 6. For concrete masonry, in place, the sum of ten dollars ($10) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eight dollars ($8) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of eight dollars ($8) per cubic yard.

Item 9. For brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 10. For hollow terra cotta brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 11. For grout of Portland cement, the sum of four dollars and fifty cents ($4.50) per barrel of Portland cement used.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of two dollars and fifty cents ($2.50) per cubic yard.

Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of seventy-five cents ($0.75) per square yard.

(b) For two-ply, the sum of one dollar ($1) per square yard.

(c) For three-ply, the sum of one dollar and fifty cents ($1.50) per square yard.

(d) For four-ply, the sum of one dollar and seventy-five cents ($1.75) per square yard.

(e) For five-ply, the sum of two dollars ($2) per square yard.

(f) For six-ply, the sum of two dollars and fifty cents ($2.50) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of thirty dollars ($30) per cubic yard.

Item 17. For vitrified or cast iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of one dollar and seventy-five cents ($1.75) per linear foot.

(b) For ten (10) inch vitrified pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(c) For eight (8) inch vitrified pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

(d) For six (6) inch vitrified pipe, the sum of one dollar ($1) per linear foot.

(e) For four (4) inch vitrified pipe, the sum of seventy-five cents ($0.75) per linear foot.

(g) For six (6) inch cast iron pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(h) For four (4) inch cast iron pipe, the sum of one dollar ($1) per linear foot.

Item 18. For tunnel ducts in place as required by section 305 of the specifications, the sum of fifteen cents ($0.15) per duct foot.

Item 19—For riveted steel, painted and erected, the sum of ninety dollars ($90) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of eighty dollars ($80) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of sixty-five dollars ($65) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of seventy-five dollars ($75) per ton of two thousand pounds.

Item 26. For wire mesh, in place, the sum of ten cents ($0.10) per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand-rail, in place, including expansion bolts, etc., the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 28. For steel gratings, for ventilation, in place, including frames, etc., the sum of two dollars and fifty cents ($2.50) per square foot.

Item 29. For vault lights, in place, the sum of two dollars ($2) per square foot.

Item 30. For street surface restored:

(a) For street surface, except roadways, the sum of three dollars ($3) per square yard.

(b) For temporary restoration and maintenance of roadways, the sum of three dollars ($3) per square yard.

Item 32. For wrought-iron or fibre electric conduits, in place, in stations as follows:

(a) For three-fourths (¾) inch wrought-iron conduits, the sum of thirty cents ($0.30) per linear foot.

(b) For one and one-half (1½) inch wrought-iron conduits the sum of forty-five cents ($0.45) per linear foot.

(c) For two (2) inch wrought-iron conduits the sum of sixty cents ($0.60) per linear foot.

(d) For two (2) inch fibre conduits the sum of fifteen cents ($0.15) per linear foot.

Item 33. For cast-iron outlet boxes, in place, in stations, the sum of one dollar ($1) each.

Item 34. For six (6) inch cast-iron pipe and fittings including specials "extra heavy" in place, in stations, the sum of two dollars and fifty cents ($2.50) per linear foot.

SEWERS—ITEMS 37 TO 74.

Vitrified and Cast-iron Pipe—Items 37 *to* 43.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of six dollars ($6) per linear foot.

Item 42. For cast-iron sewer pipe (straight pipe) in place in the work, the sum of fifty dollars ($50) per ton of two thousand pounds.

Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of fifteen ($15.00) dollars per linear foot.

SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of eighteen dollars ($18) per linear foot of single track.

PIPES IN STREETS—ITEMS 77 TO 126.

For Work and Material as Called for by Section 71 *of the Specifications.*

Water and Gas Pipes—Items 77 *to* 108.

Water Pipes—Items 77 *to* 88.

For water pipes in place, as follows:

Item 78. For 4-inch water pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 79. For 6-inch water pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

Item 82. For 12-inch water pipe, the sum of two dollars ($2) per linear foot.

Gas Pipes—Items 89 *to* 99.

For gas pipes in place, as follows:

Item 90. For 4-inch gas pipe, the sum of one dollar ($1) per linear foot.

Item 91. For 6-inch gas pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 92. For 8-inch gas pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

Item 94. For 12-inch gas pipe, the sum of two dollars ($2) per linear foot.

Item 96. For 20-inch gas pipe, the sum of two dollars and fifty cents ($2.50) per linear foot.

New Cast-Iron Hub and Spigot Water and Gas Pipe.

Items 100 *and* 101.

Item 100. For new cast-iron hub and spigot straight pipe delivered on the work, the sum of forty dollars ($40) per ton of 2,000 pounds.

Item 101. For new cast-iron hub and spigot pipe, special castings, delivered on the work the sum of seventy dollars ($70) per ton of two thousand pounds.

Air Pipes—Items 121 *to* 124.

For air pipe in place, as follows:

Item 121. For 6-inch air pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)

Item 127. For electric ducts and conduits in place, as provided in section 71-a of the Specifications, the sum of twenty-five cents ($0.25) per duct foot.

Work Not Susceptible of Classification.

Article 12. In case any work or materials shall be required to be done or furnished in or about the works—whether specified herein or indicated on the plans or not—which are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten per centum (10%) of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above, but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedule, except as otherwise herein expressly provided.

In case any work or material shall be required to be done or furnished under the provisions of this article, for cost plus ten per centum (10%), the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memorandum showing the work and materials actually paid for and the actual prices therefor.

Quantities Approximate Only.

Article 13. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the works under this contract; and neither the City, nor the Commission, nor any member of the Commission, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the works, be found even approximately correct in the construction of the works; and the Contractor shall make no claim for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article 14. The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings.

Plans May be Modified.

Article 15. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interest, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages

or extra service other than is provided for items of the different classes of construction shown in the schedule, or where not susceptible of classification, then as otherwise provided herein.

Contractor Bound to Complete in Best Manner.

Article 16. The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices herein agreed upon.

Best Materials, Machinery, Tools, etc., to be Used.

Article 17. The Contractor shall furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, etc.

Article 18. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to, damages or an extension of time for completion of the works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

Article 19. No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any part of the works.

Inspection.

Article 20. The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

Article 21. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and all employees of the Commission bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Engineer to be Furnished Facilities.

Article 22. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article 23. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, nothwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work, or any part thereof, shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials.

Engineer's Determination to be Final and Conclusive Upon Contractor.

Article 24. To prevent disputes and litigations, the Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain.

Article 25. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the railroad. The Contractor shall afford such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any differences or conflicts which may arise between the Contractor and other contractors of the Commission in regard to their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article 26. Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

III.—Specifications.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class. Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section 1. The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract. are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either in advance to show all details, or precisely to forecast all exigencies The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The Railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of New York, in the best manner, according to the best rules and usages of railroad construction, and in the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

To Construct in Accordance With Specifications.

Section 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class of work where applicable or as provided in Article XII. of the contract.

Maps and Drawings.

Section 3. The contract plans referred to in the contract and specifications bear date June 15, 1910, are each countersigned by the Engineer, are stamped with the seal of the Commission, bear the general title:

For Section 10, *Route* 5.

Drawings as follows:

General Notes; Map and Profile; Nos. A12; B23, B24, B101, B102; C1 to C12, inclusive, C1010, C1011, C1014, C1015, C1016, C401, C1032.

Plans and Contract Drawings.

Section 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Where, however, changes are deemed necessary they may be ordered under Article XV. of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract drawings, but designated as supplementary drawings. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface and subsurface structures.

Supplementary Drawings May be Examined.

Section 6. These supplementary drawings, for each section of the work, can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue prints) of these drawings for one or more of the sections, for such aid, if any, as may be derived from them, on the payment of the cost of printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section 7. If, upon opening the streets, by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by the samples of the test borings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications Not Exclusive.

Section 8. It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive.

Section 9. These specifications arer grouped in subdivisions as follows:

		PAGE
1.	Description of the Work	76
2.	General Clauses	77
3.	Manner of Prosecution and Maintenance of Traffic	88
4.	Street Railroad Tracks, Mains and Other Surface or Subsurface Structures	96
5.	Excavation	102
6.	Tunneling	112
7.	Backfiling	120
8.	Piling and Timbering	121
9.	Cement	123
10.	Bortar	127
11.	Masonry	128
12.	Concrete	130
13.	Brick Masonry	137
14.	Stone Masonry	139
15.	Waterproofing	140
16.	Steel and Iron	145
17.	Painting	157
18.	Ducts and Conduits	160
19.	Drains and Pumps	167
20.	Sewers	171
21.	Requirements for Pipes	197
22.	Street Surface and Park Surface Restored	206
23.	Vault Lights, Gratings and Hand-rails	209

1—Brief Description of the Work.

General Nature.

Section 10. The Rapid Transit Railroad which is hereinbefore described is to be an underground railroad or subway, the general details of construction and the location of the various tracks, junctions, grades, etc., being indicated more particularly on the contract drawings.

Stations to be Constructed.

Section 11. Stations are to be constructed at such places as are indicated on the plans, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidently with the completion of the Railroad.

Surface and Subsurface Structures.

Section 12. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Chambers and Gratings.

Section 13. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of necessary ventilating devices shall be built at the sides of the Railroad and in connection therewith. These chambers shall be generally of the form and dimensions as shown on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from the chambers, suitable air-ways, ducts or flues shall be constructed.

The chambers will be built at the places and as indicated on the plans.

Section 14. Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad.

Section 15. The chambers will be provided with suitable doors or openings, and with ladders reaching to the street for use as exits in case of emergency.

2—General Clauses.

Prevention of Water Percolation.

Section 16. It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section 17. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section 18. All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyances to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section 19. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system, which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall fail so to prosecute his work that, in the judgment of the Engineer, it shall not be reasonablly probable that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section 20. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section 21. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the material needed for construction has been acquired and is available. Such permits are to be in such form and to cover such portions of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Section 22. Before any opening is made in the surface of a street. a copy of the permit issued by the Commission shall have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Notice Regarding Commencement of Work.

Section 23. Before commencing work on any part of the route, whether on the Railroad or on the sewers lying off the line of the Railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured.

Shafts and Dumping Platforms.

Section 24. Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., shall be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Ordinances and Regulations.

Section 25. In all operations connected with the Works, all ordinances of the City, and of the Board of Health. so far as they may be valid and operative with respect thereto, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, shall be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and Harbor of materials used in, or in connection with, the work.

Requirements of Borough President, etc., to be Observed.

Section 26. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Building and Water Permits; Shut-offs for Water Pipes, etc.

Section 27. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shall bear the cost of the service of inspectors required by any municipal department or other public authority in or about the execution of the work other than the inspectors or the employees of the Commission. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same and of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in section 70 of the specifications.

Storage on Cross Streets.

Section 29. No material of any nature shall be stored along the streets occupied by the Railroad in Manhattan or on 138th street, in The Bronx. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of such structural material as may be absolutely necessary to avoid delay in construction may be stored; such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

Material Stored.

Section 30. Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section 31. In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Access to Fire Hydrants.

Section 32. Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Work to be Cleared.

Section 33. At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Assistance to be Rendered to Owners of Buildings.

Section 34. Where access to any adjacent property is temporary cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost. tender every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Waste Material.

Section 35. Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section 36. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense, wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section 37. Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Advertisements Forbidden.

Section 38. The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

Barricades.

Section 39. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Detailed Drawings.

Section 40. The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

Section 41. The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work called for by said working or shop drawings shall be done until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

Lines and Grades.

Section 42. During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the Railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work. The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Notice, How Given.

Section 43. When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Imperfect Work.

Section 44. Any imperfect construction which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to be Replaced.

Section 45. All work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work at the Contractor's expense.

Condemned Materials to be Removed.

Section 46. If any material brought on the ground for use in the work or selected for the same shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials as may be directed by the Engineer.

Competent Men.

Section 47. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

3—MANNER OF PROSECUTION AND MAINTENANCE OF TRAFFIC.

Access to Buildings, etc.

Section 48. No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and, where streets are open suitable bridges shall be built and maintained, at the Contractor's expense, to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Wharves and Docks.

Section 50. For that portion of the route adjoining wharves and docks the work must be so prosecuted as to permit free access to neighboring wharves and docks.

Contiguous Contract Sections.

Section 50-a. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of ten feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Other Portions of the Route.

Section 51. Generally the Contractor will be permitted to conduct its work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section 52. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both in longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section 53. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work when the excavation is in trench the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption.

Street Intersections.

Section 61. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted must be kept at all times open to traffic for at least one-half the width of the cross roadway, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Close Observance of Above Requirements.

Section 62. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

Openings for Ventilation.

Section 63. Wherever the excavations are decked, where gas pipes are maintained in service or where gases are liable to accumulate, suitable openings shall be provided for proper ventilation, or the Contractor may maintain services by temporary mains above the street decking.

Temporary Pipes, etc.

Section 64. Temporary pipes, if laid above the street or sidewalk surfaces, shall be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

In General.

Section 65. In general, work will, as provided herein, be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of its contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

4—Street Railroad Tracks, Mains and Other Surface or Subsurface Structures.

Notice to be Given.

Section 66. Notice is to be given by the Contractor to all companies and the proper City officials, owning or having charge of surface or subsurface structures along any part of the work. of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

Section 67. In the rearrangement of subsurface structures requiring removal and relaying or reconstruction due to interference with the railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if, in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Reconstruction or Relaying, etc.

Section 68. Whenever it becomes necessary to cut, move, change, or reconstruct any surface or subsurface structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures.

Reasonable Dispatch.

Section 69. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, etc.

Section 70. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface and subsurface structures encountered during the prosecution of his work. All surface and subsurface structures and surfaces of whatever character along the line of the work shall be protected from injury, but should any injury occur the Contractor shall fully restore such surface or subsurface structures or surfaces to as good a condition as existed before the injury was done. All the above, including also all changes of surface or subsurface structures made by the Contractor for his own convenience in executing his work, shall be done at the Contractor's own expense and included in the prices stipulated in the schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section 71. Changes of water, gas, steam or other pipes made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such pipes and their appurtenances in other than the original position, will be paid for at the prices stipulated in Schedule Items 77 to 99, Items 102 to 106, Items 109 to 114, Items 121 and 122, and Item 125. These prices are per linear foot of pipe laid including all work, labor and material incidental to such laying, excepting that:

(1) If new pipes have to be provided and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100 and 101, Items 107 and 108, Items 115 to 120, Items 123 and 124, and Item 126, which prices are to cover the cost of the new pipes delivered on the work.

(2) If the pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restora-

tion of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), and for restoration of street surface, Item 30-A and B, but only to the net lines ordered by the Engineer for excavation for such pipe work.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section 71-a. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75-A), made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the price stipulated in Schedule Item 127. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place; of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work and material incidental to and necessary for the completed duct lines.

Surface and Elevated Railroads.

Section 72. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface, subsurface and elevated railroads along the line of or crossing the line of the work.

Surface Railroads.

Section 73. The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads (including steam railroads), including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor will be at the rates specified in the Schedule for electric railroad, Item 75-A, or for horse railroad, Item 75-B, which prices will include the cost of all work incidental thereto. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Elevated Railroads.

Section 74. The Contractor shall maintain and support both temporarily and permanently in a safe condition all elevated railroad structures. Payment therefor will be at the rate specified in Schedule Item 76, which price will include the cost of all incidental work, including the reconstruction and building where necessary of all column foundations and parts of column foundations lying without the net lines of the subway structure.

Subsurface Railroads.

Section 75. The Contractor shall support and maintain both temporarily and permanently in a safe condition all subsurface railroads and their appurtenances. Payment therefor shall be deemed included in the prices for excavation, Schedule Items 1, 2 and 3.

Facilities to be Given to Make Extensions.

Section 76. In the event of the owners or the City desiring to make any alteration or extension to their structures, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

Parks and Parkways, Trees, etc.

Section 77. In any park or parkway, or where any grass plots or trees exist along any street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree of the same kind as the tree removed, injured or destroyed, and not less than fifteen (15) feet in height and not less than three and one-half (3½) inches in diameter measured two feet above the surface of the ground, and in such position as the Commissioner of Parks shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants

removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

Section 78. In replanting trees and the replanting of grass plots the Contractor must be governed by the reasonable requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be approved by such authorities and by the Commission.

Payments, How Made.

Section 79. Payment for all work covered by Sections 77 and 78 shall be included in the prices paid for Park or Street Surface Restored, Schedule Items 31 or 30.

5—EXCAVATION.

Width of Excavation.

Section 80. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the railroad, as shall be necessary in the opinion of the Engineer for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Depth of Trenches.

Section 81. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Sides to be Secured.

Section 82. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheeting.

Section 83. Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned.

Section 84. To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and shall safely and permanently underpin adjacent buildings. As part of this obligation the Contractor shall use such methods of construction or underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Payment For.

Section 86. Where underpinning of a building is necessary and the work is done as provided in Section 84, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4. The classification as to the number of stories has reference to the number of stories above the surface of the street.

Sheeting.

Section 87. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section 88. All timber used for sheeting, shoring, bracing, decking or other temporary purposes, shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of hard yellow pine, sound, straight and free from all shakes, and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

Vaults of Abutting Property.

Section 89. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section 102, but the restoration of all such walls or other parts of vaults within the ordered net lines of excavation will be paid for at the unit prices specified in the Schedule applicable to the several classes of work and material involved in such restoration.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be at the Contractor's own cost and expense.

Vaults Disturbed.

Section 90. Wherever vaults are broken through or otherwise disturbed, the Contractor shall, at his own cost and expense, erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Rock.

Section 91. Ledge rock in place, and boulders within the ordered line of excavation requiring blasting, will be considered as rock excavation.

Preparations for Rock Measurement.

Section 92. Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than 20 feet; and the engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Blasting.

Section 93. Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section 94. No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and it shall be kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

Near Pipes and Mains.

Section 95. Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

General Precautions in Blasting.

Section 96. In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Blasting.

Section 97. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides,

and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section 98. Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Carts to be Tight.

Section 99. All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Removed Expeditiously.

Section 100. Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the Harbor of New York.

When Excavated Material May be Taken by the City.

Section 101. If at any time during the course of construction the City shall desire for City purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section 102. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders requiring blasting.

Excavation in Trenches, How Measured.

Section 103. The net outside width of the railroad structure, as ordered and indicated on the plans, and the depth, also as ordered and as indicated on the plans, will govern as to width and depth in the measurements for payment for excavation. No deduction from the volume of excavation determined as above, will be made on account of basements or cellars in property acquired by the City for the construction of the railroad or on account of vault space or of spaces occupied by pipes and other subsurface structures.

No Allowance Outside of Ordered Net Lines.

Section 104. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines as above indicated, or in rock excavation, for irregularities of surface; and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the schedule.

Change of Street Grade.

Section 105. Where the contract drawings indicate that the grade of any street is to be raised the Contractor shall fill in the street to the changed grade as required and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section 106. Excavation shall be paid for at the price or prices given in Schedule Items 1 and 2 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section 107. The prices herein stipulated for excavation, Schedule Items 1, 2 and 3, are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance, support, etc., of all surface and subsurface structures of whatever nature, payment for the maintenance and support of which is not herein elsewhere specifically provided for.

6—TUNNELING.

How Lined.

Section 108. All tunnels shall be lined with steel or cast iron and concrete, or with concrete or brick masonry.

Where tunnels are lined with concrete or brick work without metal tubes, proper provisions shall be made for keeping the tunnels dry by the use of drains, and by other methods as elsewhere provided.

Packing.

Section 109. The space between the extrados of the arch or back of the sidewalls and the rock or other materials of excavation, shall be filled with concrete to a height of two feet above the spring line of the arch—above this concrete the space shall be filled with dry masonry packing. Similarly in the tunnel floor, if concrete is used, all loose muck shall, if directed by the Engineer, be removed to the solid rock and the space filled in with concrete up to the bottom line of the section ordered by the Engineer for tunnel excavation and concrete. All such concrete or other packing, being outside of the net section line for excavation as ordered by the Engineer, shall be at the sole expense of the Contractor.

Grout.

Section 110. After the tunnel lining and packing is in place, if required by the Engineer, a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part Portland cement, shall be pumped in under pressure, from time to time behind the masonry, so as to completely fill all the voids. Where tunnels are made by the use of a shield, similar grout shall be pumped in to completely fill the space left by the tail piece of the shield as soon as the shield is moved forward.

Payment for Grout.

Section 111. Where grout is ordered and used, it shall be paid for at the price herein provided, Schedule Item 11.

Lines for Excavation.

Section 112. The tunnel, at any place, is to be excavated to the line of the cross-section ordered by the Engineer for that place.

No Payment for Excavation Beyond Ordered Lines.

Section 113. All loose or shaky rock, whose fall or settlement might, in the judgment of the Engineer, produce an unequal or concentrated pressure on the masonry, shall be removed, and the space refilled with such class of masonry as the Engineer may require and as provided in Section 109, but no payment will be made for any excavation outside of the cross-section of the tunnel excavation ordered by the Engineer, as provided in Section 112.

Blasting.

Section 114. Drilling and blasting must be conducted with all possible care and in such a manner as not to shatter the roof and sides outside of the section lines, as ordered by the Engineer, nor endanger adjoining property.

Drains.

Section 115. All seams carrying water shall be carefully drained, as specified under the clauses relating to drainage.

Precautions Against Settlement.

Section 116. The Contractor must take every precaution, and such precautions as the Engineer may direct, by suitable shields, timbering, lagging or other supports, to prevent any settlement or movement of surrounding ground. Such timber as cannot be drawn without endangering the work or the ground above, shall be left in place and thoroughly surrounded by masonry and grouted.

Timbering.

Section 117. Timbering shall be used wherever necessary to support the materials or to secure the safety of the work or workmen. It will be at the sole expense of the Contractor and included in the contract price for tunnel excavation, Schedule Item 5. Wherever practicable it shall be removed before the concrete lining or concrete or other packing is placed.

Compressed Air.

Section 118. If for the work under the Harlem River and for the approaches thereto or elsewhere on the work a method is adopted requiring the use of compressed air, a plant must be provided of sufficient capacity to insure at all times and under all conditions an ample supply of air to prosecute the work with safety and dispatch, and proper air locks shall be built with safety locks, in addition to provide for the escape of workmen at time of accident.

Methods to be Approved.

Section 119. All methods of tunneling shall be subject to the approval of the Engineer, and be changed from time to time, if, in his judgment, the local conditions so require, and during construction approved methods of ventilation and lighting shall be used.

Tunneling, Payment For.

Section 120. The price per cubic yard, stipulated herein, Schedule Item 5, for tunnel excavation, is to cover all expense due to the presence of quicksand or other soft material, rotten rock, boulders, etc.; the cost of all pumping and bailing; of all timbering, and removal of same; of removing all excavated material; of all ventilation and lighting; and of all other work incident to the excavation of the tunnel. Any expense that may arise from loose or shaky rock or from falls or cave-ins, or from any unexpected obstacles, shall be borne by the Contractor. In earth sections the tunnel excavation must be large enough to permit building the masonry to the full required thickness, clear of such timbering and lagging as it may be necessary to build in. As a fair provision for such contingencies, it is assumed that the excavation will extend an average distance of one (1) foot outside the net line in the roof and sides and six (6) inches below the net line in the floor, and measurements for payment in tunnel excavation in earth will be made to those lines. It is distinctly understood, however, that no such allowances or any other allowance in tunnel excavation will be made in connection with timbering in tunnel excavation in rock.

Chambers, Drains, etc.

Section 121. Excavations for chambers, for skewbacks of arches, for sump holes, drains or for any other purpose in the tunnel, are to be measured according to the lines of the cross-sections determined by the Engineer, and paid for by the cubic yard as tunnel excavation.

Additional Enlargement.

Section 122. If after the excavation has been made of a certain size by direction of the Engineer, he is of opinion that the nature of the rock or other material is such that the form and dimensions of the masonry for which said excavation was intended must be increased, he may order an enlargement of the excavation for the purpose of building masonry of greater thickness, and the Contractor is to make such enlargement, which is to be measured according to the lines given by the Engineer, and paid for at the price per cubic yard stipulated in the schedule for tunnel excavation.

7—BACKFILLING.

Quality of Material. How Placed.

Section 128. The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six inches in depth.

Subsurface Structures. Frozen Material Not Permitted.

Section 129. Whenever pipes, sewers or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

Section 130. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, or shall be left in place, as may be directed by the Engineer, and the spaces left by the removal of such material carefully back-filled.

How Paid For.

Section 131. The cost of backfilling is to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2, 2-A, 3 and 3-A.

8—PILING AND TIMBERING.

Piles.

Section 132. If in the judgment of the Engineer the ground is of such a character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good sound pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

Piles Driven in Required Location.

Section 133. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section 134. The price herein stipulated to be paid, per linear foot of timber piles, Schedule Item 12, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section 135. If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Payment for Piles Other Than Timber Piles.

Section 136. Payment for piles other than timber piles will be as provided in Article XII. of the contract.

Grillage.

Section 137. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section 138. All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

Foundation Timber, Measurement and Payment.

Section 139. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his direction. Payment for foundation timber will be as provided in Schedule Item 13.

9—CEMENT.

Portland Cement.

Section 140. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks, to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to be Approved.

Section 141. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section 142. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section 143. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section 144. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section 145. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO_3) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section 146. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 inch and 0.0024 inch in diameter.

Time of Setting.

Section 147. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section 148. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section 149. Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength, per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) pounds. The strength at twenty-eight (28) days shall not be less than that at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, shall have at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than two hundred (200) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Long-time Tests.

Section 150. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section 151. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section 152. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section 153. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

10—Mortar.

Cement and Sand. Mixing.

Section 154. All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

Section 155. For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; and for other classes of work, as directed by the Engineer; for grout, one (1) part of cement to one (1) part of fine sand.

11—Masonry.

Laid in Portland Cement.

Section 156. All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Section 157. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section 158. During freezing weather such masonry only shall be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor shall provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

Protected in Freezing Weather.

Section 159. During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Hot Weather.

Section 160. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section 161. Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Section 162. Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

Section 163. No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Defective Masonry.

Section 164. Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

Section 165. All stone before being laid shall be thoroughly cleaned and washed if so directed by the Engineer.

12—CONCRETE.

How Composed.

Section 166. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below.

Sand.

Section 167. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section 168. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section 169. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths (3/8) inch in diameter, and no pieces that will not pass through a hole one and one-half (1½) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths (3/8) and three-fourths (3/4) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section 170. In concrete, where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may embed in the same pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (3/4) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly embedded. No two (2) stones shall be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

Section 171. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section 172. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone. Concrete for tube tunnels under the Harlem River will be as indicated on the plans.

Section 173. Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone.

Mixing by Machine.

Section 174. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used.

Mixing by Hand.

Section 175. When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet, as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Section 176. Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or spading, special tamping bars or tools being used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Section 177. Concrete to which waterproofing is to be applied shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Section 178. Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleaned.

Section 179. Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Section 180. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface shall be left rough to form a bond with the new work; and if deemed necessary by the Engineer, the points shall be reinforced with steel bars or dowls, to be furnished by the Contractor.

Joints Cleaned.

Section 181. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section 182. Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Section 183. No forms made of wood, and covered with iron will be permitted.

Section 184. The forms, if made of wood, shall be made of boards with tight joints, tongued and grooved, if required by the Engineer.

Precautions in Placing.

Section 185. Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

Section 186. The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before

placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Reinforcement Steel.

Section 187. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not to be Painted.

Section 188. The exposed faces of the concrete, excepting within station limits, shall be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids, as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

Impervious to Water.

Section 189. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Concrete, How Measured and Paid For.

Section 190. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centres, forms, etc., and removing the same, and all work incidental thereto.

Backing or Filling Concrete, Not Paid For.

Section 191. No concrete backing or filling outside of the ordered net lines of excavation will be paid for.

(For Concrete in Sewers, see Sewers.)

13—Brick Masonry.

Quality.

Section 192. Bricks for masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Section 193. Hollow terra cotta blocks or bricks may be required in station work, on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

Section 194. All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in stations) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

Section 195. The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

Section 196. All bricks of whatever nature shall be carefully culled and, if necessary, gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

Racked or Toothed.

Section 197. All unfinished work shall be racked or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Section 198. Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

Measurements and Payments.

Section 199. Brick masonry shall be measured to the lines indicated and shown on the plans and as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry, and Item 10 for hollow terra cotta brick or tile masonry; these prices are to include the cost of all scaffolding, forms, centres, etc., and the removal of the same, of all plastering and pointing, and of all other work incidental thereto.

14—STONE MASONRY.

Rubble Stone Masonry, Where Used.

Section 200. Rubble stone masonry will be used for supporting the street railroads over the roof of the Railroad where permanent supports are required, or at such other places as the Engineer may require.

How Laid.

Section 201. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Measurements and Payments.

Section 202. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8.

Other Masonry.

Section 203. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article 12 of the contract.

15—WATERPROOFING.

General Limits of Waterproofing.

Section 204. In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

Protecting Masonry.

Section 205. The protecting masonry shall be hollow terra cotta blocks, common brick or concrete, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section 206. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section 207. All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a treated woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

Section 208. The term "ply" as used in these specifications shall mean a layer of treated woven fabric, both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

Section 209. The number of plies of waterproofing on the sides at stations shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Section 210. Over the roof of the structure within station limits and over the tracks passing through the stations within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, or if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

Quality of Brick.

Section 211. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section 212. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Section 213. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section 214. Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Section 215. Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped, at the sole expense of the Contractor.

Quality of Pitch.

Section 216. Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Coal-tar Pitch.

Section 217. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25) per centum and not more than thirty-two (32) per centum of free carbon, which will soften at approximately 70° F., and melt at 100° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section 218. The asphalt used shall be the best grade of Bermudez, lake or other natural asphalt, subject to the approval of the Engineer, and shall comply with the following requirements:

The asphalt shall contain in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum

naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

Section 219. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

Section 220. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall then be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric for Waterproofing to Be Carefully Laid.

Section 221. The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken by overlapping, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Section 222. When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

Skilled Labor to Be Employed.

Section 223. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section 224. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

16—STEEL AND IRON.

Open Hearth Process.

Section 225. Steel shall be made in open hearth furnace.

Chemical and Physical Properties.

Section 226. The chemical and physical properties of finished material shall conform to the following limits:

Properties	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. "	.05%	.04%	.05%
Mn. "	.60%	.60%	.80%
Si. "	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000± (Min.)
Yield Point	55% Ult.	55% Ult.	35000± (Min.)
Elongation	$\frac{1500000}{\text{Ult. Str.}}$	$\frac{1500000}{\text{Ult. Str.}}$	20% in 2"
Fracture	Silky.	Silky.	Fine granular.
Cold Bend	180° flat.	180° flat.	120° (d.=3+.)

Yield Point.

Section 227. The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Section 228. Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel Castings.

Section 229. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section 230. The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for Bending.

Section 231. Specimens for bending shall be cut from the material as rolled.

Rivet Rods.

Section 232. Rivet rods shall be tested as rolled.

Steel Castings.

Section 233. For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

Ductility Elongation.

Section 234. In determining the ductility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

Section 235. For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the outside of the bar.

Section 236. For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

Section 237. The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

Section 238. At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

Section 239. A variation in weight of any piece of steel of two and one-half (2½) per centum from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Section 240. Each finished piece of steel shall be marked with the melt number, excepting that bars for reinforcing concrete shall be bundled and the melt number stamped on a metal tag attached to each bundle.

WROUGHT IRON.

Double Rolled.

Section 241. All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile, and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

Section 242. The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) lbs. per square inch, and a yield point of twenty-six thousand (26,000) lbs. per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

Cast Iron.

True to Pattern.

Section 243. All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attended the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) lbs. with a deflection of at least one-tenth (1/10) of an inch before rupture.

Workmanship.

Quality.

Section 244. All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods Deformed Sections.

Section 245. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods and Bars.

Section 246. Bent rods and bars and other bent material shall be bent hot and annealed, except that obtuse bends in material less than one square inch section may be made cold when permitted by the Engineer. The bending shall be done before the material is delivered on the work. Except in special cases, all bends shall be made uniformly to template.

Material Straightened in Shop.

Section 247. All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

Section 248. All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

Section 249. In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1/16) of an inch, the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the materials to be sub-punched and reamed, a punch of diameter three-sixteenths (3/16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1/16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

Section 250. All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Section 251. Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

Section 252. All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Section 253. Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall

be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Section 254. Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

Section 255. All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Section 256. Finished members shall be true and free from kinks, twists, or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Section 257. Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Section 258. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

Section 259. All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of the strain, so as to insure even bearings.

Stiffeners.

Section 260. Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Pins and Rollers.

Section 261. Pins and rollers shall be turned accurately to a gauge, and shall be of full size throughout. All pin-holes shall be bored truly and at right angles to the axes of the members to be connected, and shall fit the pins with a play not exceeding one thirty-second (1/32) of an inch.

Bed Plates Planed.

Section 262. Bed plates shall be planed. The bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Section 263. Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

Section 264. The weight of every piece and box shall be plainly marked upon it.

Inspection.

Section 265. Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

Section 266. The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

Section 267. The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Errors in Plans.

Section 268. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Chemical Analysis.

Section 269. Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analysis.

Section 270. Check analysis shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

Section 271. The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

Section 272. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section 273. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground and to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel and Cast Iron.

Section 274. The prices to be paid for steel and cast iron are as herein provided in Schedule Items 19, 20, 21, 22, 23 and 24. These prices include the cost of material delivered and erected in the work, with the exception of Item 23, the placing of which is provided for in Item 22. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings.

Section 275. For other castings, not included in the above and not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25.

Wire Mesh.

Section 276. Wire mesh, of a character and weight to be approved by the Engineer, is to be furnished and placed around the lower flanges of the roof girders, and at other places as may be required, in order to hold the concrete in place.

Wire Mesh, Payment For.

Section 277. Wire mesh, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

17—PAINTING.

Section 278. All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

Section 279. All iron shall be scraped free from scale, and receive one coat of red lead paint as herein specified before leaving the shops. All surfaces which come

in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

Section 280. The red lead shall be strictly pure, and shall contain at least 80 per cent. of "true lead" ($Pb_3 O_4$). The color shall be a clean, pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk bolting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

Section 281. The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212° Fahr. on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60° Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section 282. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section 283. Red lead paint shall be mixed in the proportion of 500 pounds of red lead to 5½ gallons of boiled linseed oil, and 11 gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section 284. Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Section 285. Structural steel and rods to be embedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

Section 286. The second coat of paint shall be a carbon paint approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon.

Metal to be Cleaned After Erection.

Section 287. After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Section 288. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer.

Third Coat, When Applied.

Section 289. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after a completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable. The several field coats shall be sufficiently tinted to be distinctive.

Surfaces in Contact.

Section 290. Surfaces of exposed members inaccessible after erecting, shall be cleaned and painted before erecting.

Recesses, etc.

Section 291. All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

Section 292. All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth, if necessary.

Rainy or Freezing Weather.

Section 293. No painting in rainy or freezing weather or on wet surfaces will be permitted.

Payments.

Section 294. Payment for painting is included in the prices for steel and iron.

18—DUCTS AND CONDUITS.

Vitrified Ducts—Quality and Size.

Section 295. The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters liable to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to injure the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

Thickness of Ducts.

Section 296. The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

Ends Combed.

Section 297. The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

Section 298. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section 299. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section 300. The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick unbleached muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. The muslin shall be not less than 56 by 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

Mandrels.

Section 301. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section 302. The ducts shall be laid with dowel pins, at least two pins on the opposite sides horizontally.

Laid to Line.

Section 303. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To be Rodded.

Section 304. After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening.

If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts, during construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section 305. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad.

Duct Manholes.

Section 306. Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the Railroad, as necessary, in accordance with the location of the duct lines. They may vary in form as may be necessary to accommodate the work to local conditions.

Duct Manholes at Stations.

Section 307. Duct manholes will be built at the ends of the stations to provide for the passage of the ducts under the station platforms, and if found necessary on account of the lengths of stations, additional manholes will be constructed under the platforms.

Section 308. At manholes the ducts will be laid to conform to the special conditions.

Section 309. In all work where iron pipe or fibre conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Section 310. The iron pipe or fibre conduits required by section 309 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

Section 311. All iron conduit used for any purpose in connection with the work herein shall be of the best grade (Galvaduct or equal), standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. It shall be delivered to the work in bundles of full length pipes, each length marked with the trade-mark of the manufacturer. It shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Installation.

Section 312. All conduit shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Watertight.

Section 313. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a watertight job.

Fibre Conduits, Quality, Laying, etc.

Section 314. All fibre conduit shall be made of impregnated fibre equal to that manufactured by the Fibre Conduit Company of Orangeburg, New York.

It shall be of uniform thickness, having walls of not less than one-quarter (¼) inch and true cylindrical holes not less than two (2) inches in diameter. Lengths shall be not less than five (5) feet, and all ends shall be finished.

All joints shall be made by suitable finished sleeves fitting closely over the ends of the conduit and made watertight by making up with an approved bituminous compound.

After laying, all ducts shall provide a clear, true opening, free from obstructions and imperfections in any way injurious to the wires to be installed. All ducts shall be rodded and cleaned with an approved mandrel not less than one and three-quarter (1¾) inches in diameter and eighteen (18) inches long.

Built in Concrete, etc.

Section 315. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Not Built in Concrete.

Section 316. Conduit not built into the structure shall be supported by approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section 317. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section 318. Measurements for the above iron pipe or fibre conduits shall be per linear foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section 319. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a watertight joint. Covers shall be of cast iron and watertight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet box furnished and placed in the work shall be as herein stipulated in Schedule Item 33.

19—Drains and Pumps.

Railroad to be Drained.

Section 320. Every part of the Railroad, the stations and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Section 321. Where the Railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the Railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the Railroad and draining into the sewers.

Subdrains.

Section 322. Along such parts of the work where the soil is not porous, or where the floor of the Railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Connections and Cross Drains.

Section 323. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the Railroad shall be as necessity demands and all as directed by the Engineer. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron. as directed.

Broken Stone for Drainage.

Section 324. On the roof of the Railroad and at other points as may be directed or indicated on the plans, broken stone shall be placed for the purposes of drainage.

Sumps.

Section 325. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the subdrains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section 326. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall each have a separate source of power, and shall be arranged to operate antomatically. Under this contract the Contractor will only furnish the pump or pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

The pumps shall be of the capacity required by the Engineer.

Capacity.

Section 327. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Delivery to Sewers, etc.

Section 328. The delivery of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains, Broken Stone, Pumps, etc.

Section 329. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Item 17. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever such as bends, tees, wyes, handholes, etc., and all materials necessary for jointing the same. Where back-pressure valves or gate valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Section 330. For broken stone for drainage, furnished and placed, Section 324, payment will be made as provided in Schedule Item 14.

Section 331. For pumps, Section 326, the Contractor will be paid as provided in Article XII. of the contract, not including, however, the pipe connections with sumps and sewers which pipe will be paid for as hereinbefore provided in Schedule Item 17.

Soil Pipes for Stations.

Section 332. It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in positions as shown on the plans and will be paid for as provided in Schedule Item 34.

20—SEWERS.

In Accordance With Plans and Specifications.

Section 333. All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades, at the depths, with the connections, and in the manner called for by these specifications and shown on the drawings.

Change of Location.

Section 334. If in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

Section 335. The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims for Damages.

Section 336. Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of

departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section 337. The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the Railroad, shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but shall be not less than three feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Section 338. Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section 339. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section 340. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle, enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin. In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations.

Section 341. Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary, and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form, with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Inspection of Grades.

Section 342. When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector, and no construction work shall be done in his absence.

Trenches to be Kept Free from Water.

Section 343. The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunneling.

Section 344. When tunneling for sewers shall be deemed advisable, it shall be done in a manner approved by the Engineer.

Gutter and Passageway to be Kept Open.

Section 345. At all times, gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Section 346. Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

Section 347. All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

Section 348. The Contractor shall provide for the flow of all sewers, drains and watercourses, interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Brick.

Section 349. In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two rings of bricks are required.

How Laid.

Section 350. The bricks shall be properly wet immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the points to be carefully struck on the inside.

Racked Back or Toothed.

Section 351. All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Back or Stone Inverts.

Section 352. All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used for the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

Section 353. The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed or withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling in of the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Section 354. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the

sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

Section 355. Spurs shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Section 356. Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used unless otherwise ordered by the Engineer. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water mains.

Under Station Platforms.

Section 357. Wherever the sewer passes under a station platform or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed, as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Section 358. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section 359. Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Section 360. Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place.

Invert to be Protected.

Section 361. The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Section 362. Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work.

Defective Work.

Section 363. If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

Section 364. No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

Section 365. In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers—Quality of Pipe.

Section 366. Pipe sewers shall be built of vitrified, salt glazed stoneware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

Section 367. The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:

6-inch pipes shall be not less than ⅝ of an inch thick.
8-inch pipes shall be not less than ¾ of an inch thick.
10-inch pipes shall be not less than ⅞ of an inch thick.
12-inch pipes shall be not less than 1 inch thick.
15-inch pipes shall be not less than 1¼ inches thick.
18-inch pipes shall be not less than 1½ inches thick.
24-inch pipes shall be not less than 2 inches thick.
30-inch pipes shall be not less than 2½ inches thick.

Lengths.

Section 368. No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved and Split Pipes.

Section 369. When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length. Split pipes shall be used when found necessary.

Hub and Spigot Pipe.

Section 370. In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

Section 371. In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than five inches wide. Each collar must have an internal diameter of not less than one-half inch nor more than one and one-half inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Section 372. Pipes having spurs not less than six inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

Section 373. The provisions for risers on brick sewers shall also apply to pipe sewers. .

Bends.

Section 374. Bends, siphons and special pipes shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

Section 375. All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be four inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

Section 376. When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

Section 377. When pipe without hubs is used, a collar or ring shall be used at joints and shall lap equally the ends of each abutting pipe. Such collar or ring shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

Spaces Between Pipes Uniform.

Section 378. The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be removed and the inside of the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Section 379. Sewers of iron pipe, of quality and laid in the manner described elsewhere in these specifications for the laying of water mains, shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Section 380. Wherever such pipes are laid under station platforms or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an airtight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Section 381. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

Section 382. All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

Section 383. All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid,

except as may be necessary in tamping the earth and refilling, will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

Section 384. The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

Section 385. The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Section 386. The masonry of manholes shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by selected bluestone slabs eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

Section 387. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Section 388. Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

Vitrified Bricks or Granite Blocks.

Section 389. The invert shall be built of vitrified brick, granite blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section 390. A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Section 391. Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Section 392. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section 393. A cast iron manhole head and cover of the quality specified for cast iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Section 394. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Section 395. Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds.
Street manhole cover, 135 to 150 pounds.
Sidewalk manhole head, 300 to 310 pounds.
Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

Section 396. When the pavement of the street is asphalt on wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Manhole Heads and Covers.

Section 397. All manholes in station platforms, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section 398. Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

Section 399. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section 400. Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

Section 401. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

Section 402. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section 403. Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-Iron Cover.

Section 404. A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

Section 405. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

Section 406. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

Joints.

Section 407. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so desired.

Iron Steps.

Section 408. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section 409. The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as in the opinion of the Engineer may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Section 410. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section 411. Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Mortar.

Section 412. All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

Section 413. All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

Section 414. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under the heading of "Street Surface and Park Surface Restored."

Permits for Connections.

Section 415. The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections. This is not to be construed, however, as permitting the introduction of storm water or sewerage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section 416. During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor, all at his own expense.

Payment for Sewers.

Section 417. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 37 to 74, both inclusive, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections 333 to 416 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavations.

Section 418. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), on the basis of size of trench stipulated in Sections 337 and 340, excepting where the sewer is built by tunneling, in which case tunnel excavation will be paid for at the price herein stipulated in Schedule Item 5-A (which prices shall include all the matters referred to in Sections 117 and 120), on the basis of the net ordered lines of the sewer. Payment for street surface restored shall be as provided in Schedule Items 30-A or B.

Steel Beams and Reinforcing Rods.

Section 419. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21.

Automatic Flush Tanks.

Section 420. Where automatic flush tanks are built as provided in Section 410 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section 421. Where waterproofing is required and placed in accordance with Section 411 of the specifications it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Siphons.

Section 422. Where inverted siphons passing under the subway structure are called for and built, they shall be considered as part of the regular subway construction from outside to outside of the sewer chambers or between points of departure from standard sewer construction, such limits being indicated on the plans; and payment for such siphons will be made in accordance with the various classes of work or material as are applicable thereto in the Schedule and at the prices therein stipulated for such items.

Cast-Iron Pipe Sewers, etc.

Section 424. All cast-iron pipe sewers wherever built, and the parts, within the limits of the Railroad, or as indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

House and Drainage Connections.

Section 425. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Sections 422 and 424 will be included in the prices for the several classes of work and material entering into such construction.

21—REQUIREMENTS FOR PIPES.

Generally.

Section 426. Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

Section 427. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section 428. The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

Section 429. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots

to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth (⅛) of an inch, or whose dimensions differ by more than one-eighth (⅛) of an inch from those required.

Section 430. The pipes shall be designated by dimensions of the interior diameter

Section 431. Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

Section 432. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Section 433. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section 434. The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

60-inch pipes,	12,835 pounds each.
48-inch pipes,	8,270 pounds each.
42-inch pipes,	6,860 pounds each.
36-inch pipes,	5,305 pounds each.
30-inch pipes,	3,940 pounds each.
24-inch pipes,	2,660 pounds each.
20-inch pipes,	2,005 pounds each.
16-inch pipes,	1,475 pounds each.
12-inch pipes,	1,015 pounds each.
8-inch pipes,	580 pounds each.
6-inch pipes,	415 pounds each.

High Pressure Fire System.

Section 435. For high-pressure fire system standard spigots and grooves—The weights for straight pipes, with lugs, shall be approximately as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch	355	420	550	935
12-inch	615	745	1,000	1,765
16-inch	1,005	1,215	1,635	2,905
20-inch	1,475	1,795	2,425	4,320
24-inch	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Section 436. The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

Section 437. No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

Underweight.

Section 438. No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent., for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

Straight Pipe Cast Vertically.

Section 439. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Section 440. All the castings shall be made in such molding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

Section 441. All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and

the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

Section 442. The metal of which the castings are to be cast (which shall be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

Section 443. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings to be Clean.

Section 444. The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes shall be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Section 445. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section 446. The coal-tar pitch shall be made from coal tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Section 447. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and shall be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Section 448. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit, before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

Section 449. No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section 450. The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

Section 451. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the Inspector.

Blocking and Wedges.

Section 452. Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

Timber for Blocking.

Section 453. The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

Section 454. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and the hub shall be packed with clean, sound jute packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a watertight joint

Lead.

Section 455. The lead to be used shall be of the best quality of pure, soft lead. and in every respect suitable for the purpose.

Notice of Interruption to be Given.

Section 456. In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

Connections Interfered With.

Section 457. All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stopcocks, etc.

Section 458. Stopcocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Section 459. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

22—Street Surface and Park Surface Restored.

Pavement to be Restored.

Section 460. As soon as the structure in any excavation or trench made within a street shall be completed and the trench backfilled, a temporary pavement shall be laid and maintained in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as, that existing previous to the commencement of construction; except that the Contractor will not be required to permanently restore the pavement of roadways between curb lines, but shall provide a temporary roadway pavement as follows:

Temporary Roadway Pavement.

Section 461. Upon the backfill, placed and compacted as provided under the clauses relating to backfilling, shall be placed a layer of sand, about an inch and

a half in thickness, on which shall be laid a pavement of granite blocks carefully laid and rammed to the required finished grade of the street surface. The end and side joints shall be thoroughly filled with sand, and shall not exceed ¾ of an inch in thickness. The granite blocks required for this temporary pavement, if found in or under the original pavement, shall be stored at a suitable place until required for use. In case granite blocks are not found in or under the original pavement, they may be obtained by the Contractor, free of cost, from the Bureau of Highways at the corporation yards.

The Contractor shall maintain the temporary roadway pavement thus laid for a period not exceeding six months from the time of its completion in any one block or street intersection. During this period the Contractor shall, without requiring previous notice, readjust or relay any portion of the pavement wherever and whenever a straight edge 3 feet long, laid in any direction, shows a depression of more than ¾ inch.

All the requirements as to street surface restored, including temporary roadway pavements, shall apply to the trenches for sewers, pipes or other subsurface structures along or off the line of the Railroad. Within the limits of private property to be taken by the City for the extension of Irving Place, these requirements will not apply.

Other Sidewalks May be Laid.

Section 462. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such property owner, duly acknowledged in writing by both parties.

In case any property owner desires to lay a sidewalk, or other surface covering within curb lines, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the restoration as hereinbefore provided.

Payment for Street Surface Restored.

Section 463. Payment for street surface restored will be made as provided in Schedule Item 30-A or B, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface.

Measurements.

Section 464. The measurement for payment for street surface restored will be to the net line of ordered excavation.

Outside of Net Lines.

Section 465. All other pavement outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as the result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally good as that existing previous to the commencement of construction.

Parks and Parkways.

Section 466. All parks and parkways including trees, shrubbery, etc., as elsewhere provided in this contract and the specifications, are to be restored to the satisfaction of the Department of Parks.

Measurement.

Section 467. Measurements for park surface restored are to be to the net lines of ordered excavation.

Payment For.

Section 468. Payment for park surface restored will be made at the price provided in Schedule Item 31.

Outside of Net Lines.

Section 469. Any damage done outside of the net lines of ordered excavation in connection with the construction of the work to park surfaces or growths, under the jurisdiction of the Department of Parks, shall be restored to the satisfaction of the said Department, and at the Contractor's own cost and expense.

23—VAULT LIGHTS, GRATINGS AND HAND-RAILS.

Vault Lights.

Section 470. The roofs of the stations, where under sidewalks, parks or parkways, shall, to as great an extent as possible, consist of vault light construction. These lights shall be made with lenses, not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame or panel in every ten (10), as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and if that fail, then the whole lot may be rejected. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

Section 471. The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and the price paid will be as provided in Schedule Item 29, which price shall include all material and work incidental to the completed vault lights in place.

Steel Gratings.

Section 472. Steel gratings shall be provided and placed over fan and other ventilating chambers, over stations and station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Measurement and Payment.

Section 473. Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work.

Galvanized Iron Pipe Hand-Rails.

Section 474. Galvanized iron pipe hand-rails will be placed in the Railroad over the benches containing the ducts. They shall be securely fastened to the wall of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of hand-rail in place in the work, complete, and at the price as stipulated in Schedule Item 27.

IV.—SECURITY TO BE FURNISHED BY CONTRACTOR.

Security by Contractor. Contractor's Bond.

Article 27. Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in the form annexed hereto, entitled, "Form of Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum specified in the Invitation to Contractors for the Section embraced in this contract. In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within ten days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such ten days or such further time as the Commission may grant, to substitute another and sufficient surety, then the contractor shall, for all the purposes of this contract be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor

the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

V.—PAYMENTS TO CONTRACTOR.

Partial Payments.

Article 28. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with the contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand dollars ($10,000). The Engineer shall further include accepted structural iron and steel delivered on the site of the work, but not incorporated in the work, at the rate of forty dollars ($40) per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory, shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, and none of the Contractor's plant shall be included in partial estimates.

Not by Strict Measurement.

Article 29. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article 30. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify a voucher for ninety per cent. of the amount stated in such estimate or certificate to be the value of the work done and materials furnished, and the City shall within thirty (30) days after the date of the certification of such voucher by the Commission pay the same; provided, however, that the City may at all times reserve and retain from said partial payments, or any of them, in addition to the ten per cent. above mentioned to be retained and reserved, any sum or all sums which by the terms hereof, or of any law of the State of New York passed prior to the date hereof, it is or may be authorized to reserve or retain.

Final Estimate.

Article 31. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part, the Engineer shall so certify, in writing, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract. On the expiration of ninety (90) days after the acceptance by the Commission of the work herein agreed to be done by the Contractor, and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller, signed by the Engineer and the Commission, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the last-mentioned certificate, all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and also any sum or all such sums of money as by the terms hereof the City is or may be authorized to reserve or retain; provided, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work, should the said certificate be found, or known to be, inconsistent with the terms of this contract, or otherwise improperly given. All prior certificates upon which partial payments may have been

made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based.

Interest in Case of Delayed Payments.

Article 32. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article 30, in the case of partial payment, or Article 31, in the case of final payment, the City shall pay the Contractor interest on such amount at the rate of four and one-half (4½) per cent. per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. The term for which interest shall be paid shall be reckoned, in the case of a partial payment from the thirtieth day after the certification of such voucher by the Commission, and in the case of a final payment from the ninetieth day after the acceptance of the work by the Commission, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller for payment in the usual manner.

No Estoppel.

Article 33. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing the true and correct amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article 34. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article 35. The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the Commission, the City or of any person relating to or affecting the work, except only the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claims for Damage. Statements of Damage to be Filed With Engineer.

Article 36. If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Lien Law.

Article 37. If at any time before or within thirty days after the whole work agreed herein to be performed and all the labor and material herein agreed to be delivered have been performed or delivered or completed and accepted by the City any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller of the City any such notice as is described in the Lien Law, the City shall retain until the discharge thereof from moneys under its control so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice.

VI.—Contractor's Liability for Injuries to Persons or Property.

Contractor Approves Plans as Involving No Damage.

Article 38. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures or to navigation; and the Contractor will at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures or to navigation. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part, or on the part of his agents, servants or employees and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage. Where the work is required to be done by tunneling the same admission and covenant shall also apply to the foundations, walls and other parts of buildings and to any railroad track or structure, subway, street, conduit, pipe, sewer or other structure or surface over the tunnel. But this admission and covenant shall not apply to the foundations, walls or other parts of buildings or any part thereof acquired by the City and which the Engineer may determine should be razed.

Traffic to be Maintained.

Article 39. The Contractor shall, during the performance of the work, safely maintain the traffic on streets, avenues, highways, parks, waters or other public places as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

Article 40. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor or May be Retained to Meet Claims.

Article 41. In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property as aforesaid, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned, the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard

to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or any part thereof, for a time not exceeding the time when such claims would be barred under the existing Statute of Limitations, as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article 42. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and, one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above.

Damage to Works During Construction.

Article 43. All risk of loss or damage to the works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VII.—CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE BY INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article 44. The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances.

Claims for Infringement of Patents.

Article 45. The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

Article 46. The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the works free of interference or right of interference; provided, however, that this covenant shall not apply to or include any damages for physical injuries to property referred to in chapter 6 hereof, whether or not compensation for such damages be awarded in a condemnation proceeding. If compensation for any such damages shall be included in an award in condemnation proceedings the Contractor shall, upon demand, promptly reimburse the City for any payments made by it for such purposes.

VIII.—TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article 47. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within forty-two (42) months from the date of the delivery of this contract.

Price to be Reduced for Delay.

Article 48. In the event of delay in completion of the works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due) there shall be deducted and retained by the City the following percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly from any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained by the City and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any subcontractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended by resolution of the Commission to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

Article 49. But no injunction, strike or interference of public authority shall be ground for such extension, except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel of the Commission or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Article 50. The time stipulated within which to complete the works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article 51. The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor

for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

Article 52. In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three (3) months from the date of the delivery of such notice the Commission shall allow the Contractor so much additional time wherein to perform and complete this contract on his part as the Engineer shall certify in writing to be just, but no allowance by way of damages shall be made for such delay.

Extensions Not Cumulative.

Article 53. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article 54. The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

IX.—Remedies in Case of Contractor's Default.

Article 55. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission may

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this article of the contract. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the bond. And

Or May Bring Suit.

(3) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

X.—MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article 56. No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and by the sureties upon his bond; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

Article 57. No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contractor Not to Assign, Sublet, Etc.

Article 58. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article 59. In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

Article 60. The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 36 of the Laws of 1909. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency, caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of the City, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any subcontractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void

and of no effect, unless the Contractor shall comply with the provisions of this section. In obedience to the requirements of section 14 of the Labor Law, it is further provided that if the provisions of the said section 14 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article 61. It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted or is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

Article 62. If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect and shall, upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Contractor has caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

By...................., Chairman.

Attest:

...................., Secretary.

State of New York, County of New York, ss.:

On the .... day of ...., 1910, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally came .... to me known and known to me to be the individual.. described in and who executed the foregoing instrument, and ..he.. duly acknowledged to me that ..he.. executed the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally appeared ...., to me known, who, being by me first duly sworn, did depose and say: That he resided in ...., in the State of........; that he is .... of ...., the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said Company, and that he signed his name thereto by like authority.

FORM OF CONTRACTOR'S BOND.

Route 5, Section No. 10.

Know All Men by These Presents, That .... of ...., hereinafter called the Contractor, and .... and ...., hereinafter called the Sureties, are

held and firmly bound unto The City of New York, hereinafter called the City, in the sum of .... dollars ($........), lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said sum of .... dollars ($........), and each of the said Sureties to be so held and bound only for a portion of said sum as follows:

The said ....
for the sum of...... ....dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........).

In Witness Whereof, The Contractor and the Sureties have hereunto set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this .... day of ...., 1910.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a Rapid Transit Railroad known as Section 10 of Route 5, in............, and extending from .... street to .... street, in the Borough of ...., in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof, now therefore.

The condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defense upon this Bond; that the Sureties shall not set up or have any defense upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

ROUTE 5, SECTION 1, BATTERY PARK TO DEY STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 1.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†...

.... do.. hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form

annexed hereto with The City of New York for the construction of section 1 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	160,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	143,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........	....	61,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	..
	(b) For buildings from seven to twelve stories in height, per front foot........	....	400	....
	(c) For buildings over twelve stories in height, per front foot..................	....	300	....
6.	For concrete masonry, in place, per cubic yard	....	70,500	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	10,300	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...................	....	770	....
12.	For timber piles, in place, and prepared, per lineal foot........................	....	5,000	....
13.	For timber foundations, placed and fastened, per thousand feet, B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,200	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	80,000	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	4,000	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	12,200	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,430	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,800	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	238,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	5,500	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	4,400	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	660	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	10	....
26.	For wire mesh in place, per pound........	....	10,600	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	9,000	....
29.	For vault lights, in place, per square foot..	....	4,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard....................	....	7,140	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	14,520	....
31.	For park surface restored (all classes), per square yard	....	20,800	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought iron, per lineal foot..........	....	18,900	....
	(b) For one and one-half inch (1½ inch) wrought iron, per lineal foot..........	....	3,230	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) for two inch (2 inch) wrought iron, per lineal foot	....	1,730	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	6,600	....
33.	For cast-iron outlet boxes in place, in stations, each	....	1,030	....
34.	For six inch (6 inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	140	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,250	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	720	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch per lineal foot	....	*2,168	....
47.	For 4 foot by 2 foot 8 inch per lineal foot.	....	*452	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,500	....
	(b) For horse railroads, per lineal foot of single track	....	240	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	120	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications. Water and Gas Pipes—Items* 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	760	....
82.	For 12-inch water pipe, per lineal foot	....	730	....
84.	For 20-inch water pipe, per lineal foot	....	680	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	280	....
91.	For 6-inch gas pipe, per lineal foot	....	610	....
96.	For 20-inch gas pipe, per lineal foot	....	90	....

---

*Balance remaining after deducting portion of sewer included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	25	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....
	Steam Pipes, Air Pipes and Mail Tubes—Items 109 *to* 126. *Steam Pipes—Items* 109 *to* 120.			
	For steam pipe, in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	.30	....
113.	For 15-inch steam pipe, per lineal foot....	....	830	....
	New Steel-welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot....	....	30	....
119.	For 15-inch steam pipe, per lineal foot....	....	200	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	45,900	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room .... on the ...... floor of the building .... in the Borough of ...., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be ac-

cepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District, is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am† the proposing contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2, DEY STREET TO WALKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	256,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	142,300	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	3,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard...............	....	100	....
4.	*For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	1,300	....
	(c) For buildings over twelve stories in height, per front foot..................	....	750	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	23,300	....
6.	For concrete masonry in place, per cubic yard	....	84,800	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard..	....	6,220	....
8.	For rubble stone masonry in place, per cubic yard	....	3,250	....
9.	For brick masonry, in place, per cubic yard.	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	2,360	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	4,000	....
12.	For timber piles, in place, and prepared, per linear foot........................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B.M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard............	....	45,500	....
	(b) For 2-ply, per square yard............	....	100	....
	(c) For 3-ply, per square yard............	....	5,300	....
	(d) For 4-ply, per square yard............	....	100	....
	(e) For 5-ply, per square yard............	....	100	....
	(f) For 6-ply, per square yard............	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,300	....

*Not to include underpinning, if any, in connection with construction of iron-lined tunnel portion.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	210	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,600	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	365,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	6,700	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,850	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,240	....
22.	For cast-iron tunnel lining, in place in the work, including the placing of bolts and washers and caulking of joints, etc., per ton of two thousand pounds............	....	5,300	....
23.	For steel bolts and washers for tunnel lining, per ton of two thousand pounds..	....	75	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	20	....
26.	For wire mesh, in place, per pound........	....	13,620	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per linear foot	....	9,130	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,310	....
29.	For vault lights, in place, per square foot..	....	2,900	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard....................	....	8,065	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	18,695	....
31.	For park surface restored (all classes), per square yard	....	1,300	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought-iron, per lineal foot..........	....	31,300	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot..........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two-inch (2 inch) wrought-iron, per lineal foot	....	830	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place in stations, each	....	1,160	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	380	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,760	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3-foot 6-inch by 2-foot 4-inch, per lineal foot	....	*185	....
47.	For 4-foot by 2-foot 8-inch, per lineal foot	....	(†95)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per linear foot of single track	....	6,750	....
	(b) For horse railroads, per linear foot of single track	....	770	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	6	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications. Water and Gas Pipes—Items* 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
82.	For 4-inch water pipe, per lineal foot	....	500	....
85.	For 24-inch water pipe, per lineal foot	....	1,200	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
94.	For 12-inch gas pipe, per lineal foot	....	500	....
95.	For 16-inch gas pipe, per lineal foot	....	500	....
96.	For 20-inch gas pipe, per lineal foot	....	500	....

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	50	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.........	....	13	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot...................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot...................	....	200	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot...................	....	180	....
106.	For 24-inch high pressure fire system water pipe, per lineal foot...................	....	120	....
	New Cast-Iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds.............	....	15	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	5	....
	Steam Pipes—Items 109 *to* 120.			
	For steam pipe in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	500	....
	New Steel-Welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot.....	....	100	....
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot....................	....	31,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of six hundred thousand dollars ($600,000), in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room ...., on the ... floor of the building ...., in the Borough

of ...., in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the Contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

......................., being duly sworn, says: I am†.......................

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2-A, WALKER STREET TO HOWARD STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2-A.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..

.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached

hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2-A of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	28,070	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	59,370	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	100	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot...............	....	318	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	70	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	18,180	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2,625	....
8.	For rubble stone masonry in place, per cubic yard	....	500	....
9.	For brick masonry, in place, per cubic yard	....	230	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	105	....
12.	For timber piles, in place, and prepared, per lineal foot.......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,070	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	20,625	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,255	....
	(d) For 4-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	120	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	3,255	....
17.	For vitrified or cast-iron drain pipe in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	800	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	625	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	45,025	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	2,275	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	1,945	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	23	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	10	....
26.	For wire mesh, in place, per pound	....	4,100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	900	....
29.	For vault lights, in place, per square foot.	....	2,025	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard	....	2,442	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	2,798	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	9,640	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	520	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	260	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	578	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	770	....
	SEWERS—ITEMS 37 TO 74.			
	Egg-Shaped Brick or Concrete Sewers, Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot............................	....	(†190)	....
47.	For 4 foot 0 inch by 2 foot 8 inch, per lineal foot............................	....	(†230)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete, Items 52 *to* 66.			
54.	For 4 foot 3 inch, per lineal foot..........	....	(†42)	....
55.	For 4 foot 9 inch, per lineal foot..........	....	(†208)	....
57.	For 5 foot 6 inch, per lineal foot..........	....	(†68)	....
	SURFACE AND SUBSURFACE STRUCTURES, ITEMS 75 AND 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	1,280	....
	(b) For horse railroads, per lineal foot of single track......................	....	100	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	500	....
86.	For 30-inch water pipe, per lineal foot....	....	400	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	960	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.................	....	21	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106. For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot..................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot............	....	490	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot............	....	150	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds..........	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	11,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of two hundred and fifty thousand dollars ($250,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No................on the................floor of the building No........................in the Borough of.................................. in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the

said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of.............., 1910.

ROUTE 5, SECTION 3, HOWARD STREET TO BLEECKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 3.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. do. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 3 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the............ ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	172,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	40,500	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	10,400	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	3,700	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	1,700	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	2,200	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	1,230	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	16,900	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	3,700	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	3,060	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	1,460	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	207,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	2,560	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	780	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,530	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	10	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	6,400	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	3,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,200	....
29.	For vault lights, in place, per square foot	....	5,000	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein or thereon, per square yard	....	9,390	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	14,240	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,600	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot	....	1,000	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	520	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	....	....
33.	For cast-iron outlet boxes in place in stations, each	....	440	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	160	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,272	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	543	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	283	....
	Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	*554	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	484	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
53.	For 4 foot 0 inch, per lineal foot	....	1,145	....
54.	For 4 foot 3 inch, per lineal foot	....	*284	....
	SURFACE AND SUBSURFACE STRUCTURES. ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,470	....
	(b) For horse railroads, per lineal foot of single track	....	720	....
	PIPES IN STREETS—ITEMS *77 to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
82.	For 12-inch water pipe, per lineal foot	....	600	....
86.	For 30-inch water pipe, per lineal foot	....	800	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	32	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds	....	8	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot	....	100	....

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
103.	For 12-inch high pressure fire system water pipe, per lineal foot....................	....	410	....
105.	For 20-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	10	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	42,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate

as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 4, BLEECKER STREET TO 14TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 4.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 4 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	181,400	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......................	....	14,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	25,700	....
4.	For underpinning buildings, including all incidental work and material per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	2,100	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,600	....
	(c) For buildings over twelve stories in height, per front foot..................	....	70	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	33,000	....
6.	For concrete masonry, in place, per cubic yard	....	46,400	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,200	....
8.	For rubble stone masonry in place, per cubic yard	....	900	....
9.	For brick masonry, in place, per cubic yard	....	1,300	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,700	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,700	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	9,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,320	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,330	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	4,420	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	437,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	1,940	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	1,750	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,250	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	16	....
26.	For wire mesh, in place, per pound	....	6,030	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,140	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	6,200	....
29.	For vault lights, in place, per square foot	....	900	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	6,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	15,470	....
31.	For park surface restored (all classes), per square yard	....	1,350	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	4,500	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	570	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	310	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place in stations, each	....	242	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	25	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,134	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	170	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,978	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	228	....
	SURFACE AND SUBSURFACE STRUCTURES—*Items 75 and 76.*			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	4,800	....
	(b) For horse railroads, per lineal foot of single track	....	150	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	530	....
82.	For 12-inch water pipe, per lineal foot	....	1,560	....
87.	For 36-inch water pipe, per lineal foot	....	2,300	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	130	....
91.	For 6-inch gas pipe, per lineal foot	....	1,800	....
92.	For 8-inch gas pipe, per lineal foot	....	1,070	....
94.	For 12-inch gas pipe, per lineal foot	....	270	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	130	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	40	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot.....................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot..............	....	90	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	49,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City damages by it sustained by reason of such failure of

the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...................................., being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 5, 14TH STREET TO 26TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 5.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡ .... do.. hereby, in pursuance to the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 5 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quan-

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

tities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	106,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	17,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	21,800	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	3,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings, less than seven stories in height, per front foot	....	400	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	75,300	....
6.	For concrete masonry, in place, per cubic yard	....	37,800	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	620	....
8.	For rubble stone masonry in place, per cubic yard	....	350	....
9.	For brick masonry, in place, per cubic yard.	....	3,100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	1,400	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,500	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	5,900	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,600	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	770	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,600	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	9,000	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	525,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	270	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,150	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	130	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes, in place, per ton of two thousand pounds	....	15	....
26.	For wire mesh, in place, per pound.......	....	1,400	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,100	....
28.	For steel gratings, for ventilation, in place, including frames, etc., per square foot..	....	8,300	....
29.	For vault lights, in place, per square foot.	....	5,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard................	....	5,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,050	....
31.	For park surface restored (all classes), per square yard.......	....	1,000	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought iron, per lineal foot..........	....	15,000	....
	(b) For one and one-half inch (1½ inch) wrought-iron per lineal foot............	....	450	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two inch (2 inch) wrought-iron, per lineal foot........................	....	230	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	4,000	....
33.	For cast-iron outlet boxes in place in station, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	40	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,738	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	280	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	4	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,465	....
47.	For 4 foot by 2 foot 8 inch, per lineal foot	....	248	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	240	....
49.	For 4 foot 6 inch by 3 foot, per lineal foot	....	242	....
50.	For 4 feet 9 inches by 3 feet 2 inches per lineal foot	....	246	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
52.	For 3 feet 9 inches, per lineal foot........	....	264	....
60.	For 6 feet 0 inch, per lineal foot........	....	1,250	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	2,300	....
	(b) For horse railroads, per lineal foot of single track	....	200	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	460	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,490	....
92.	For 8-inch gas pipe, per lineal foot......	....	720	....
94.	For 12-inch gas pipe, per lineal foot......	....	580	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds.................	....	20	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	5	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot...............	....	86,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:...

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No...............on the...................floor of the building No........................in the Borough of............................... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 6, 26TH STREET TO 40TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 6.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 6 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the.......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	73,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	500	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	37,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	116,200	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	27,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	340	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	30	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation (except tunneling sewers), including disposal of material, timbering, etc., per cubic yard	....	85,000	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard	....	2,810	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	370	....
8.	For rubble stone masonry in place, per cubic yard	....	1,700	....
9.	For brick masonry, in place, per cubic yard	....	1,610	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	880	....
11.	For grout of Portland cement, per barrel of Portland cement used............	....	2,500	....
13.	For timber foundations, placed and fastened, per thousand ft. B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,100	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	4,810	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	6,300	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	650	....
17.	For vitrified or cast iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	5,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,200	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	555,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,770	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,710	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	610	....
24.	For cast iron columns erected and painted, per ton of two thousand pounds	....	60	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	15	....
26.	For wire mesh, in place, per pound......	....	8,200	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,900	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,100	....
29.	For vault lights, in place, per square foot	....	6,400	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	3,170	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	19,630	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	12,000	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	900	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	460	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
33.	For cast-iron outlet boxes in place in stations, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	60	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	720	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,055	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	390	....
47.	For 4 feet 0 inch by 2 feet 8 inches, per lineal foot	....	†(60)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
57.	For 5 feet 6 inches per lineal foot	....	1,080	....
58.	For 5 feet 6 inches in tunnel, per lineal foot	....	1,280	....
60.	For 6 feet 0 inch per lineal foot	....	1,160	....
64.	For 8 feet 0 inch per lineal foot	....	420	....
66.	For 9 feet 6 inches per lineal foot	....	1,935	....
	Sewers of Special Forms—Items 67 to 72.			
71.	For triple section, per lineal foot	....	102	....
72.	For 4 feet 0 inch wooden barrel, per lineal foot	....	336	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,800	....
	(b) For horse railroads, per lineal foot of single track	....	270	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	1,230	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	160	....
91.	For 6-inch gas pipe, per lineal foot.......	....	830	....
92.	For 8-inch gas pipe, per lineal foot......	....	880	....
94.	For 12-inch gas pipe, per lineal foot......	....	1,000	....
95.	For 16-inch gas pipe, per lineal foot......	....	110	....
96.	For 20-inch gas pipe, per lineal foot......	....	230	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	27	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	7	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot........	....	250	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	103,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the ...... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 7, 40TH STREET TO 53D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 7.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, copy of form of contract, copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 7 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the........................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	125,600	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	6,300	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	221,000	....
3a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	5,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	1,284	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	145	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation (except tunneling for sewers), including disposal of material, timbering, etc., per cubic yard	....	17,700	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard	....	565	....
6.	For concrete masonry, in place, per cubic yard	....	54,200	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,240	....
8.	For rubble stone masonry in place, per cubic yard	....	3,200	....
9.	For brick masonry, in place, per cubic yard.	....	800	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	230	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,250	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	5,535	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	10,840	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	1,020	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,500	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,570	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	609,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	4,390	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.........	....	380	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds.........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	18	....
26.	For wire mesh, in place, per pound........	....	5,900	....
27.	For one and one half inch (1½-inch.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	9,783	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot...	....	10,100	....
29.	For vault lights, in place, per square foot..	....	8,150	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	9,970	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	15,430	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	23,100	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	1,070	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot........................	....	575	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	6,610	....
33.	For cast-iron outlet boxes in place in stations, each	....	994	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	440	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,887	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,044	....
47.	For 4 feet 0 inches x 2 feet 8 inches per lineal foot	....	806	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
53.	For 4 feet 0 inches per lineal foot	....	300	....
58.	For 5 feet 6 inches, in tunnel, per lineal foot	....	257	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	7,192	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column	....	4	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	800	....
82.	For 12-inch water pipe, per lineal foot	....	340	....
84.	For 20-inch water pipe, per lineal foot	....	700	....
86.	For 30-inch water pipe, per lineal foot	....	140	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	360	....
91.	For 6-inch gas pipe, per lineal foot	....	200	....
92.	For 8-inch gas pipe, per lineal foot	....	540	....
94.	For 12-inch gas pipe, per lineal foot	....	270	....
95.	For 16-inch gas pipe, per lineal foot	....	470	....
96.	For 20-inch gas pipe, per lineal foot	....	180	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	10	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	130	....
122.	For 8-inch air pipe, per lineal foot........	....	500	....
123.	For new 6-inch air pipe, delivered on the work, per lineal foot..................	....	30	....
124.	For new 8-inch air pipe delivered on the work, per lineal foot.................	....	100	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,900	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	10	....
	DUCTS IN STREETS			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	106,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of.......................... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any

longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially desposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

......................................being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 8, 53D STREET TO 67TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 8.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 8 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons, strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say " (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A, B. C, D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	172,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	24,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	54,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	2,200	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	1,743	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	78,900	....
6.	For concrete masonry, in place, per cubic yard	....	45,100	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	430	....
8.	For rubble stone masonry in place, per cubic yard	....	3,750	....
9.	For brick masonry, in place, per cubic yard.	....	3,480	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	470	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	3,050	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	7,600	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	430	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	11,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	569,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	1,417	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	760	....
21.	For steel rods and bars built in concrete per ton of two thousand pounds	....	1,305	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound	....	1,370	....
27.	For one and one half-inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,758	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,560	....
29.	For vault lights, in place, per square foot.	....	5,600	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	8,710	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	17,190	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,865	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	706	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	380	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place, in stations, each	....	494	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	90	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,596	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,758	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,863	....
47.	For 4 feet 0 inch by 2 feet 8 inches per lineal foot	....	342	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
59.	For 5 feet 9 inches per lineal foot	....	268	....
60.	For 6 feet 0 inch per lineal foot	....	260	....
63.	For 7 feet 0 inch per lineal foot	....	870	....
65.	For 8 feet 9 inches per lineal foot	....	520	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	7,624	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	680	....
84.	For 20-inch water pipe, per lineal foot	....	60	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	400	....
91.	For 6-inch gas pipe, per lineal foot	....	800	....
92.	For 8-inch gas pipe, per lineal foot	....	900	....
95.	For 16-inch gas pipe, per lineal foot	....	60	....
96.	For 20-inch gas pipe, per lineal foot	....	1,000	....
98.	For 30-inch gas pipe, per lineal foot	....	250	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	36	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds	....	9	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot	....	550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
124.	For new 8-inch air pipe, delivered on the work, per lineal foot..................	....	100	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	121,000	....

(2) If this Proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am† .... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 9, 67TH STREET TO 79TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 9.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 9 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	101,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	18,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	48,400	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	500	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	350	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	60,900	....
6.	For concrete masonry in place, per cubic yard	....	36,360	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	900	....
8.	For rubble stone masonry in place, per cubic yard	....	4,650	....
9.	For brick, masonry, in place, per cubic yard	....	2,740	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	525	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	4,860	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	7,950	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	824	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,490	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,540	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	491,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	994	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	695	....
21.	For steel rods and bars built in concrete,, per ton of two thousand pounds..	....	1,017	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound	....	1,300	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	5,580	....
29	For vault lights, in place, per square foot	....	2,620	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	4,790	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,760	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	14,045	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	478	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot	....	256	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	612	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	300	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,800	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	530	....
42.	For cast-iron sewer pipe (straight pipe), in place in the work, per ton of two thousand pounds	....	12	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,250	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
60.	For 6 feet 0 inch per lineal foot..........	....	1,200	....
62.	For 6 feet 6 inches per lineal foot........	....	240	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports (if required and added and not including additional vaults if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	6,196	....
	(b) For horse railroads, per lineal foot of single track........................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	330	....
82.	For 12-inch water pipe, per lineal foot....	....	1,050	....
83.	For 16-inch water pipe, per lineal feet....	....	100	....
	Gas Pipes—Items 89 *to* 99			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	330	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,200	....
92.	For 8-inch gas pipe, per lineal foot......	....	280	....
94.	For 12-inch gas pipe, per lineal foot......	....	290	....
96.	For 20-inch gas pipe, per lineal foot......	....	530	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	30	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	8	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per linear foot......	....	410	....
124.	For new 8-inch air pipe, delivered on the work, per linear foot..................	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	170,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of three hundred thousand dollars ($300,000), in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No.........., on the...... floor of the building No............. in the Borough of.............., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that the Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission, to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..........................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am†

.... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of.................., 1910.

Route 5, Section 10, 79th Street to 93d Street.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad

(Route 5, Section 10.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 10 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........................	....	44,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard..........................	....	2,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	150,100	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	700	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..;" if a corporation, say, "the (President or other officer duly authorized) of the....... ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	910	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	100	....
	(c) For buildings over twelve stories in height, per front foot.................	....	..	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	91,800	....
6.	For concrete masonry, in place, per cubic yard	....	49,540	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	260	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	1,940	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	65	....
11.	For grout of Portland cement, per barrel of Portland cement used...............	....	2,500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,000	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	5,820	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	4,820	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	595	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	4,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	..	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	10,300	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	576,300	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	2,655	....

Item	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,574	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	588	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound	....	6,970	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	14,968	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	6,070	....
29.	For vault lights, in place, per square foot	....	234	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	4,130	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	8,340	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	9,065	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	908	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	477	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	466	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	75	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,985	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	25	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
44.	For 3 feet 0 inch x 2 feet 0 inch per lineal foot	....	†(80)	....
45.	For 3 feet 6 inches x 2 feet 4 inches per lineal foot	....	95	....
47.	For 4 feet 0 inch x 2 feet 8 inches per lineal foot	....	†(210)	....
51.	For 5 feet 2 inches x 3 feet 5 inches per lineal foot	....	†(70)	....

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	3,900	....
	(b) For horse railroads, per lineal foot of single track	....	..	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot......	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	120	....
82.	For 12-inch water pipe, per lineal foot....	....	460	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	200	....
91.	For 6-inch gas pipe, per lineal foot........	....	540	....
92.	For 8-inch gas pipe, per lineal foot......	....	350	....
94.	For 12-inch gas pipe, per lineal foot......	....	100	....
96.	For 20-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipes—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	12	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	150	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot....................	....	19,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pur-

suant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..........................on the......................... floor of the building No...in the Borough of ....in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of the City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.: ....
....being duly sworn, says: I am†..
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this.....................day of..................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of...";
if a corporation, say "the (President or other officer duly authorized) of the..........
....Company."

ROUTE 5, SECTION 11, 93RD STREET TO 106TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 11.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..

.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with the City of New York for the construction of Section 11 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1..	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	52,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	22,700	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	3,600	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	81,300	....
3-a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	2,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....

---

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For buildings over twelve stories in height, per front foot........	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	82,900	....
6.	For concrete masonry, in place, per cubic yard	....	39,170	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2.060	....
8.	For rubble stone masonry in place, per cubic yard	....	2,270	....
9.	For brick masonry, in place, per cubic yard	....	1,880	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard........	....	1,340	....
11.	For grout of Portland cement, per barrel of Portland cement used........	....	2,500	....
12.	For timber piles, in place, and prepared, per lineal foot........	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,760	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard........	....	17,850	....
	(b) For 2-ply, per square yard........	....	100	....
	(c) For 3-ply, per square yard........	....	8,800	....
	(d) For 4-ply, per square yard........	....	100	....
	(e) For 5-ply, per square yard........	....	100	....
	(f) For 6-ply, per square yard........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	2,500	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,340	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,200	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,730	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	409,480	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds........	....	1,480	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds........	....	2,480	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	300	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	7	....
26.	For wire mesh, in place, per pound......	....	6,640	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,960	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,535	....
29.	For vault lights, in place, per square foot	....	4,420	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...................	....	5,570	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	9,470	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot...........	....	15,260	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	587	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	250	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,405	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	51	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*975	....
46.	For 3 feet 9 inches by 2 feet 6 inches, per lineal foot	....	*308	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc.,			

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	3,560	....
	(b) For horse railroads, per lineal foot of single track	....	†40	....
	PIPES IN STREETS—ITEMS 77 *to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	580	....
82.	For 12-inch water pipe, per lineal foot....	....	660	....
88.	For 48-inch water pipe, per lineal foot....	....	170	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	100	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,260	....
92.	For 8-inch gas pipe, per lineal foot......	....	930	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			......
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	29	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	7	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot...............	....	38,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be

---

†Yard supply tracks for elevated railroad.

delivered at Room No................on the..................floor of the building No.....................in the Borough of...............................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in accordance to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:
....being duly sworn, says: I am†..
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.
Sworn to before me this..................day of......................, 1910

ROUTE 5, SECTION 12, 106TH STREET TO 118TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 12.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, Copy of form of contract. Copy of form of bond.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..;
if a corporation, say "the (President or other officer duly authorized) of the.........
....Company."

To the Public Service Commission for the First District:

1. The undersigned‡ ....
.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 12 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	126,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	93,000	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	11,300	....
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	12,820	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	4,680	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,535	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,480	....
8.	For rubble stone masonry in place, per cubic yard	....	874	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...............	....	1,212	....

---

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,450	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	37,870	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,300	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic in place, per cubic yard	....	6,053	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,634	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	685	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	2,225	....
18.	For tunnel ducts, in place as required by Section 305 of the specifications, per duct foot	....	319,490	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	754	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	4,163	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	95	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	12,760	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,320	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,440	....
29.	For vault lights, in place, per square foot	....	8,900	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard.............	....	8,230	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	17,330	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot.........	....	12,455	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot......................	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	720	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	275	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,418	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	568	....
43.	For cast-iron sewer pipe (special casting) in place in the work, per ton of two thousand pounds	....	130	....
	Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,296	....
	Additional Sewer Construction—Items 73 *and* 74.			
73.	For six (6) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,000 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	.....
74.	For eight (8) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,800 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required			

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
	and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	6,585	....
	(b) For horse railroads, per lineal foot of single track	....	310	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	440	....
82.	For 12-inch water pipe, per lineal foot....	....	1,480	....
84.	For 20-inch water pipe, per lineal foot....	....	190	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	830	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,530	....
92.	For 8-inch gas pipe, per lineal foot......	....	550	....
95.	For 16-inch gas pipe, per lineal foot......	....	130	....
96.	For 20-inch gas pipe, per lineal foot....	....	190	....
97.	For 24-inch gas pipe, per lineal foot......	....	100	....
99.	For 36-inch gas pipe, per lineal foot......	....	130	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	10	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot................	....	83,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..................on the...............floor in the building No....................in the Borough of........................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates. or in any portion of the profits thereof.

Dated the..., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡...

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of........................., 1910.

ROUTE 5, SECTION 13, 118TH STREET TO 129TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 13.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†...
.... do..

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say "the (President or other officer duly authorized) of the.......... ....Company."

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 13 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	79,320	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	51,360	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	2,400	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	207,460	....
3-a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	260	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	3,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	95	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	50,215	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	3,570	....
8.	For rubble stone masonry in place, per cubic yard	....	1,200	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	450	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	27,360	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	3,190	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	590	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	4,660	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	1,102	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	6,790	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	291,770	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds........	....	5,585	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,905	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.......	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound......	....	21,320	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,260	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,220	....
29.	For vault lights, in place, per square foot	....	3,960	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard..............	....	8,940	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,730	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	4,770	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	820	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	410	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes in place in stations, each	....	480	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	245	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*514	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	*270	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	10	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*677	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,980	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	1,670	....
82.	For 12-inch water pipe, per lineal foot	....	1,420	....
84.	For 20-inch water pipe, per lineal foot	....	120	....
87.	For 36-inch water pipe, per lineal foot	....	120	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction and under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
89.	For 3-inch gas pipe, per lineal foot......	....	170	....
90.	For 4-inch gas pipe, per lineal foot......	....	860	....
91.	For 6-inch gas pipe, per lineal foot......	....	3,430	....
92.	For 8-inch gas pipe, per lineal foot......	....	2,370	....
93.	For 10-inch gas pipe, per lineal foot......	....	230	....
94.	For 12-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	53	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	13	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot......	....	210	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,200	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	6	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	63,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No......., on the........floor of the building No............, in the Borough of............, in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within

such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates. or in any portion of the profits thereof.

Dated the................................, 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..........day of.........., 1910.

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE H.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 14.)

Notice.—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡ .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "H" and to

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of....................................."; if a corporation, say "the (President or other officer duly authorized) of the.......................... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co.. composed of A., B. C. D. etc." (giving the names of all partners).

furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
*35.	For tube tunnel under Harlem River as per type "H", per lineal foot of four-track tube complete	....	1,110	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	47,970	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	156,650	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	24,480	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	850	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	38,600	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,140	....
8.	For rubble stone masonry in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard................	....	100	....
†12.	For timber piles, in place, and prepared, per lineal foot	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand ft B. M........	....	2M	....

---

*See note under Item 12 of Approaches.

†The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications...

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	44,830	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	310	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	7,380	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	179,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	6,200	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	690	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound......	....	16,340	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,330	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface, restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	7,095	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot........	....	‡50	....
47.	For 4 feet 2 inches by 2 feet 8 inches per lineal foot	....	†(60)	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot.....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds........	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot........	....	2,000	....

---

‡Balance remaining after deducting portions of sewer included in railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the...........floor of the building No...........in the Borough of..................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................, 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡..
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this...........day of..............., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say, "the (President or other officer duly authorized) of the..................
....................................Company."

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE K.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5. Section 14.)

Notice—Sums of money must be written in words and also in figures, except in schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned* ....
do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "K," and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Type K—Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
†36.	For tube tunnel under Harlem River as per type "K," per lineal foot of four-track tube complete	....	1,080	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	49,510	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	156,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......	....	27,620	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	850	....

---

*The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

†See note under Item 12 of Approaches.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	39,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,130	....
8.	For rubble stone masonry, in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	100	....
‡12.	For timber piles, in place, and prepared, per lineal foot........................	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	45,000	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,420	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	180,420	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	6,620	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	580	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....

‡The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
25.	For miscellaneous iron castings other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound.......	....	17.380	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,460	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	7,355	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*50	....
47.	For 4 feet 2 inches by 2 feet 8 inches, per lineal foot	....	†(60)	......
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of 2,000 pounds	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot....................	....	2,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the............floor of the building.................in the Borough of...................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.................................., 1910.

Affidavit of Verification

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of................, 1910.

ROUTE 5, SECTION 15, MOTT AVENUE TO 157TH STREET AND TO ALEXANDER AVENUE.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 15.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...

do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 15 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final, and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	106,630	- ....

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, a member of the firm of......................................"; if a corporation, say, "the (President or other officer duly authorized) of the...Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A., B. & Co., composed of A., B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	71,900	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	16,900	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	265,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	1,200	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	10,460	....
6.	For concrete masonry, in place, per cubic yard	....	78,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,060	....
8.	For rubble stone masonry, in place, per cubic yard	....	360	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	3,200	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	500	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	5,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	37,400	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	8,150	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	6,100	....
17.	For vitrified or cast-iron drain pipes, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	210	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	12,400	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	508,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	5,060	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,130	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	2,050	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	32	....
26.	For wire mesh, in place, per pound	....	25,660	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,440	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,130	....
29.	For vault lights, in place, per square foot	....	8,700	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	11,800	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	28,800	....
31.	For park surface restored (all classes), per square yard	....	3,180	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	25,000	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	650	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	325	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes, in place, in stations, each	....	820	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
37.	For 12-inch vitrified pipe sewer, per lineal foot	....	2,900	....
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*2,564	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	†(1,132)	....
40.	For 20-inch vitrified pipe sewer, per lineal foot	....	†400	....
41.	For 24-inch vitrified pipe sewer, per lineal foot	....	*102	....
42.	For cast-iron sewer pipe (straight pipe), in place, in the work, per ton of two thousand pounds	....	30	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	960	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
56.	For 5 feet, per lineal foot........	....	430	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot......	....	320	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........	....	4,730	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column........	....	8	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called For by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
79.	For 6-inch water pipe, per lineal foot.....	....	1,550	....
82.	For 12-inch water pipe, per lineal foot....	....	1,350	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes, in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	210	....
92.	For 8-inch gas pipe, per lineal foot.......	....	1,300	....
94.	For 12-inch gas pipe, per lineal foot......	....	180	....
95.	For 16-inch gas pipe, per lineal foot......	....	540	....
96.	For 20-inch gas pipe, per lineal foot......	....	540	....
97.	For 24-inch gas pipe, per lineal foot......	....	760	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	60	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	15	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits, in place, as provided in section 71a of the specifications, per duct foot..................	....	1,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No........, on the........floor of the building No.............in the Borough of................, in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.........................., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am†... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this...........day of............, 1910.

SECTION 11—FROM EAST 93D STREET, UNDER LEXINGTON AVENUE TO EAST 106TH STREET. CONTRACTOR: THE BRADLEY CONTRACTING COMPANY. AMOUNT, $3,132,195.05.

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, July 5, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New York and Bradley Contracting Company for the construction at the public expense of Section 11 of Route 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue, from East 93d street to East 106th street, in the Borough of Manhattan.

The Public Service Commission for the First District further requests your honorable Board to consent to the said contract herewith transmitted and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of three million one hundred and thirty-two thousand one hundred and ninety-five dollars and five cents ($3,132,195.05); and also to direct the Comptroller of The City of New York to issue bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad.

And the Public Service Commission for the First District does hereby, pursuant to section 45 of the Greater New York Charter, make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of three million one hundred and thirty-two thousand one hundred and ninety-five dollars and five cents ($3,132,195.05).

In witness whereof the Public Service Commission for the First District has

caused its official seal to be hereto affixed and attested by its Secretary and these presents to be signed by its Chairman this 5th day of July, 1911.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of....................................."; if a corporation, say, "the (President or other officer duly authorized) of the...Company."

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. Willcox, Chairman. [SEAL]

Attest: Travis H. Whitney, Secretary.

Route 5, *Section* 11.

After consideration of the bids on Section 11 of Route 5, the following resolution was duly moved and seconded:

Resolved, That this Commission hereby accepts the proposal of Bradley Contracting Company, dated October 27, 1910, for the construction of Section 11 of Route 5, being that portion of the proposed Lexington Avenue Rapid Transit Railroad which extends under Lexington avenue, from East 93d street to East 106th street, in the Borough of Manhattan, the aggregate of the unit price in the proposal amounting to three million one hundred and thirty-two thousand one hundred and ninety-five dollars and five cents ($3,132,195.05).

Resolved, That the Chairman and the Secretary be and they hereby are authorized on behalf of the Commission to execute a contract in the form attached to the said proposal and to deliver the same if and when consented to by the Board of Estimate and Apportionment and upon compliance by the said Bradley Contracting Company with the requirements of the Invitation to Bidders attached to the said proposal.

Resolved, That the Chairman and Secretary be and they hereby are authorized and directed to request the Board of Estimate and Apportionment to consent to the said contract and to prescribe a limit to the amount of bonds available to meet the requirements of the said contract, to wit, the sum of three million one hundred and thirty-two thousand one hundred and ninety-five dollars and five cents ($3,132,195.05); and also to request the said Board of Estimate and Apportionment to direct the Comptroller of The City of New York to issue the bonds of said City at such rate of interest as the Board of Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means for construction at the public expense of the said portion of such railroad; and also to make request for the authorization of bonds for the full amount sufficient to pay the entire estimated expense of executing such contract, to wit, the sum of three million one hundred and thirty-two thousand one hundred and ninety-five dollars and five cents ($3,132,195.05).

Resolved, That the Secretary give notice to the said Bradley Contracting Company that its proposal has been accepted and the contract awarded to it by this Commission, subject to its being consented to by the Board of Estimate and Apportionment as required by law.

Resolved, That it be referred to Counsel by the Commission to inquire into the sufficiency of the sureties proposed to be given by the said Bradley Contracting Company and in case the sureties named in the proposal of the said Bradley Contracting Company or any of them are not approved by the Commission, then to inquire into the sufficiency of any other or substitute sureties and in behalf of the Commission to do any such act as may be necessary and incidental to the furnishing of a proper bond.

Ayes—Commissioners Willcox, McCarroll, Maltbie, Eustis, Cram.

Nays—None.

Carried.

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify, that I have compared the above with the original adopted by said Commission on July 5, 1911, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission, this 5th day of July, 1911.

[SEAL] TRAVIS H. WHITNEY, Secretary.

Invitation to Contractors.

Parts of Lexington Avenue Route.

The City of New York, acting by the Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct portions of a proposed rapid transit railroad in the Boroughs of Manhattan and The Bronx in The City of New York. Proposals may be submitted separately for any one or more of the separate sections of which such railroad consists as hereinafter stated.

The points within the City between which the said several parts are to run and the route or routes to be followed are briefly as follows:

Lexington Avenue Route.

(Route No. 5.)

Section 1 begins under Battery Park and extends thence under Battery place, Greenwich street, Trinity place and Church street to a point about 80 feet north of the centre line of Dey street; with a station in Battery Park, a station at Rector street and a station at Cortlandt and Dey streets.

Section 2 begins at the end of Section 1 and extends thence under Church street, private property, Vesey street, private property, and Broadway to a point under Broadway about 110 feet north of the centre line of Walker street; with a station at Murray and Warren streets.

Section 2-A begins at the end of Section 2 and extends thence under Broadway to a point about on the northerly building line of Howard street. This section includes the Canal street station and also the portion of the Canal street subway lying thereunder.

Section 3 begins at the end of Section 2-A and extends thence under Broadway to a point about midway between Houston and Bleecker streets; with a station at Prince street.

Section 4 begins at the end of Section 3 and extends thence under Broadway, private property and the several cross streets to a point under private property at the southerly line of East 14th street and Irving place; with a station at Astor place and East 8th street.

Section 5 begins at the end of Section 4 and extends thence under Irving place, Gramercy Park and Lexington avenue to a point about 140 feet north of the centre line of East 26th street; with a station at East 14th and East 15th streets and a station at East 23d street.

Section 6 begins at the end of Section 5 and extends thence under Lexington avenue to about the centre line of East 40th street; with a station at East 27th and East 28th streets and a station at East 34th street.

Section 7 begins at the end of Section 6 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 53d street; with a station at East 42d and 43d streets and a station at East 51st street.

Section 8 begins at the end of Section 7 and extends thence under Lexington avenue to a point about 50 feet north of the centre line of East 67th street; with a station at East 58th and East 59th streets.

Section 9 begins at the end of Section 8 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 79th street; with a station at East 68th and East 69th streets and a station at East 77th street.

Section 10 begins at the end of Section 9 and extends thence under Lexington avenue to a point about 50 feet south of the centre line of East 93d street; with a station at East 86th street.

Section 11 begins at the end of Section 10 and extends thence under Lexington avenue to a point about 70 feet south of the centre line of East 106th street; with a station at East 96th street and a station at East 102d and East 103d streets.

Section 12 begins at the end of Section 11 and extends thence under Lexington avenue to a point about 115 feet south of the centre line of East 118th street; with a station at East 110th and East 111th streets and a station at East 116th street.

Section 13 begins at the end of Section 12 and extends thence under Lexington avenue to a point about 120 feet south of the centre line of East 129th street; with a station at East 125th street.

Section 14 begins at the end of Section 13 and extends thence under Lexington avenue, private property and the Harlem River to a point in private property in the Borough of The Bronx, thence under private property and Park avenue to East 135th street. Here the line divides into two branches. The west branch begins at about the centre line of East 135th street and extends thence under private property to a point in private property a distance of about 655 feet from the centre line of East 135th street and about 50 feet west of the centre line of Mott avenue. The east branch extends under Park avenue and partly under private property to about the intersection of the easterly line of Mott avenue with the westerly line of Park avenue.

Section 15. This section consists of two branches. The west branch begins at the end of the west branch of Section 14 and extends thence under East 138th street, private property and Mott avenue, Franz Sigel Park, private property and the several cross streets to a point in private property on the easterly side of River avenue about 120 feet south of the south line of East 157th street; with a station at East 138th street and East 149th street. (The portion of this section north of East 151st street is part of the River Avenue Route adopted by the Commission

on the 16th day of June, 1908.) The east branch begins at the end of the east branch of Section 14 and extends thence under Park avenue, private property, Canal Street West and East 138th street to a point in East 138th street about 150 feet easterly of the centre line of Alexander avenue, with a station between 3d and Alexander avenues.

The general plan of construction calls for a subsurface railroad having two tracks between Battery Park and Chambers street in Manhattan, and four tracks from Chambers street, in Manhattan, to 135th street and Park avenue, in the Bronx, with the branches in The Bronx having in the main three tracks each. Turnouts, cross-overs, connections, sidings, loops, etc., will be constructed, all of which are more particularly indicated on the contract drawings.

For Section 14 two plans, designated Type H and Type K, respectively, have been prepared. The bidders for such section may submit a proposal for either or both of such types. After a comparison of the bids the Commission will determine which of such plans shall be adopted.

Bidders for the several sections will not be required to do the station finish work, nor to provide or lay tracks, ties or ballast.

The work of construction under the contract shall include the construction of all necessary sewers and connections, along the route of the railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning where necessary, of all buildings, monuments, surface, subsurface and elevated railroads and other structures, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and the temporary paving and maintenance of roadways.

The method of construction will be partly by trench excavation (under cover, unless otherwise specified in the form of contract or permitted by the Commission), and partly by tunnel, as set forth in the forms of contract.

Bidders must examine the form of contract, specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated, in the printed form of contract and in the contract drawings therein referred to. Printed copies of the forms of contract, bond and contractor's proposal, may be had on application at the office of the Commission, 154 Nassau street, Borough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders by payment of five dollars ($5) for the contract drawings for each section. The printed form of contract and the contract drawings are to be deemed a part of this invitation.

The Commission is informed by the Department of Docks and Ferries that docks and bulkheads along the East River may be available for dumping purposes. Information in regard thereto may be obtained by any intending bidder upon inquiry at the office of the Commission.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The Contractor for any section or sections will be required to complete the work as soon as practicable and within the time hereinafter prescribed for such completion.

Sealed bids or proposals will be received at the office of the Commission at 154 Nassau street, Borough of Manhattan, City of New York, until the 27th day of October, 1910, at twelve (12) o'clock noon, at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

A statement, based upon the estimate of the Engineer, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required for each section, is to be found in the schedules forming a part of the form of Contractor's Proposal. The quantities given in such schedules are approximate only, being given as a basis for the uniform comparison of bids and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed: "*Proposal for Constructing Rapid Transit Railroad—Route* 5, *Section* —*," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a separate certified check for each section bid upon, drawn upon a national or state bank or trust company having its principal office in The City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for the amount herein specified for the section for which a proposal is made. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract or contracts will be made by the Commission as soon as practicable after the opening of the proposals.

Bidders whose proposals are otherwise satisfactory, in case the sureties named by them are not approved by the Commission, may substitute in their proposals the names of other sureties approved by the Commission, but such substitution must be made within five days after notice of disapproval, unless this period is extended by the Commission.

A bidder whose proposal shall be accepted shall, in person or by duly authorized representative, attend at the said office of the Commission within ten days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond for the amount hereinafter stated. The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security to the City, ten (10) per cent. of the amount certified from time to time to be due to the Contractor will be retained until the work is fully completed and accepted.

Schedule Indicating Time Allowed for Completion, the Amount of Bond and the Amount of Certified Check for Each of the Several Sections.

Route 5.	Time for Completion, Months.	Amount of Bond.	Amount of Certified Check.
Section 1	42	$500,000 00	$15,000 00
Section 2	42	600,000 00	15,000 00
Section 2A	42	250,000 00	10,000 00
Section 3	42	300,000 00	10,000 00
Section 4	36	300,000 00	10,000 00
Section 5	42	300,000 00	10,000 00
Section 6	42	350,000 00	10,000 00
Section 7	42	350,000 00	10,000 00
Section 8	42	300,000 00	10,000 00
Section 9	42	300,000 00	10,000 00
Section 10	42	300,000 00	10,000 00
Section 11	42	300,000 00	10,000 00
Section 12	42	400,000 00	12,500 00
Section 13	42	400,000 00	12,500 00
Section 14	42	500,000 00	15,000 00
Section 15	42	500,000 00	15,000 00

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case, the Commission will give notice thereof to such defaulting bidder, and the Commission may thereupon proceed to make another contract with such, if any, of the original bidders, as, in the opinion of the Commission, it will be to the best interests of the City to contract with, or may by new advertisement invite further

proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other Contractor over the amount of the bid of such defaulting bidder.

---

*To be filled in with the Section number for which the proposal is made.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and if the bidder shall fail within ten days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, then this Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage by it sustained by reason of such failure, and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions as to security are complied with.

The right to reject any and all bids is reserved.

New York, September 1, 1910.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by WILLIAM R. WILLCOX, Chairman; TRAVIS H. WHITNEY, Secretary.

RAPID TRANSIT RAILROAD.

Contract, Route 5, Section 11.

Agreement, made this............day of..............., 1910, between The City of New York, hereinafter called the City, acting by the Public Service Commission for the First District, hereinafter called the Commission, party of the first part, and Bradley Contracting Company of.......... hereinafter called the Contractor, party of the second part.

Whereas, The Commission in behalf of the City by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, The Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, The Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual covenants and agreements hereinafter contained, and under the authority of chapter 4 of the Laws of 1891, entitled, "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, the parties do hereby, the City for itself and its successors and the Contractor for itself, its successors and assigns, agree each with the other as follows:

I.—GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

Article 1. The Contractor agrees to construct the part hereinafter described of a Rapid Transit Railroad, with its appurtenances. The City agrees to pay to the Contractor the sums of money hereinafter mentioned at the times and in the manner and upon the terms and conditions hereinafter set forth.

Brief Description of Works.

Article 2. The Railroad to be constructed under this contract forms a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for The City of New York on May 12, 1905, and which, as modified, is known as the Lexington Avenue Route—or Route No. 5. The part to be constructed under this contract consists of

Section 11—93d Street to 106th Street.

11. Beginning at a point about 50 feet south of the centre line of 93d street, thence under Lexington avenue to a point about 70 feet south of the centre line of 106th street; with stations at East 96th and at East 102d and East 103d streets.

The precise location of the tracks, and the dimensions and other characteristics of the railroad are more fully stated in the specifications forming a part of this contract, and in the detailed drawings and plans hereinafter mentioned.

Statutes Incorporated Herein.

Article 3. This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Article 4. Titles, headings, running headlines and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

Article 5. The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

(1) The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York, under the Rapid Transit Act, shall hereafter come, belong or appertain.

"Commission."

(2) The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect to the location, construction, equipment, maintenance and operation of Rapid Transit Railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Contractor."

(3) The word "Contractor" to mean the party of the second part to this contract, and its successors, and any and every person or corporation who or which shall at any time be liable in the place or for the party of the second part to perform any obligations under this contract assumed by the said party of the second part. For convenience the Contractor is hereinafter referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they;" the word "him" shall include "her," "it" and "them;" and the word "his" shall include "its," "her" and "their."

"Comptroller."

(4) The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

(5) The word "Engineer" to mean the Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

(6) The words "Rapid Transit Act" to mean chapter 4 of the Laws of 1891 as amended by chapters 102 and 556 of the Laws of 1892, chapters 528 and 752 of the Laws of 1894, chapter 519 of the Laws of 1895, chapter 729 of the Laws of 1896, chapter 616 of the Laws of 1900, chapter 587 of the Laws of 1901, chapters 533, 542, 544 and 584 of the Laws of 1902, chapters 562 and 564 of the Laws of 1904, chapters 599 and 631 of the Laws of 1905, chapters 472, 606 and 607 of the Laws of 1906, chapter 429 of the Laws of 1907, chapter 498 of the Laws of 1909, and chapters 205, 504, 505 and 506 of the Laws of 1910, or as heretofore otherwise amended.

"Railroad."

(7) The word "Railroad" to mean the part which the Contractor agrees by this contract to build, together with the station or stations to be built in conjunction therewith, and all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(8) The words "the Works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

(9) The words "New York" to mean The City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

(10) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice." "Direction."

(11) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory" or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor. Address May be Changed. Service Upon Contractor Personally.

Article 6. The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the above place, in any post office box regularly maintained by the Post Office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Subcontractor's Employees.

Article 7. If the Contractor shall cause any part of this contract to be performed by a subcontractor, the provisions of this contract shall apply to such subcontractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the subcontractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the subcontractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Subcontractors.

Article 8. The Contractor, before making any subcontract of the work, shall state in writing to the Commission the name of the proposed subcontractor, the portion of the work which such subcontractor is to do or the materials which such subcontractor is to furnish, the place of business of such subcontractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved by the Commission.

II.—WORK TO BE DONE, PRICE, ETC.

Work to be Done.

Article 9. The Contractor shall do all the work and furnish all the materials, plants, tools and appliances necessary or proper for performing and completing the work of constructing the railroad in the manner and within the time hereinafter specified. He shall complete the railroad and do all the work and furnish all labor and materials in and about the construction of the railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, the said contract drawings may from time to time be altered or modified as hereinafter provided.

Construction Includes Sewer and Other Incidentals.

Article 10. In order to construct the railroad it will be necessary to take up and relay the sidewalk pavement or other surface material, and to lay and maintain a temporary pavement in the roadway, to protect, support and maintain during construction all buildings and other structures, including their foundations, and all elevated and surface and subsurface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins

and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, steam pipes, vaults, including vaults of abutting property, and other subsurface structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the railroad and the reconstruction and restoration of the street pavements or other surfaces (except as herein provided in respect of temporary pavements for roadways), adjacent to the route of the railroad and which may have been directly or indirectly disturbed or injured by the Contractor in the progress of the work of construction, to as useful and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning wherever necessary, of all buildings or structures of whatsoever nature, monuments, elevated railroads and surface and subsurface railroads affected by or interfered with during the construction of the railroad, is part of the work which is included in this contract and which the Contractor agrees to perform for the prices herein agreed upon.

Prices.

Article 11. The City will pay and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the following prices, to wit:

Schedule of Unit Prices.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of three dollars and fifty cents ($3.50) per cubic yard.

Item 2. For earth excavation below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of nine dollars ($9) per cubic yard.

Item 3. For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., the sum of five dollars ($5) per cubic yard.

Item 3-A. For rock excavation for sewers and pipes, including the disposal of it, etc., the sum of six dollars ($6) per cubic yard.

Item 4. For underpinning buildings, including all incidental work and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of one hundred and fifty dollars ($150) per linear front foot of building underpinned.

(b) For buildings from seven (7) to twelve (12) stories in height the sum of two hundred dollars ($200) per linear front foot of building underpinned.

Item 5. For tunnel excavation (except tunneling for sewers), including the disposal of material, timbering, etc., the sum of nine dollars ($9) per cubic yard.

Item 6. For concrete masonry, in place, the sum of ten dollars ($10) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eight dollars ($8) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of eight dollars ($8) per cubic yard.

Item 9. For brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 10. For hollow terra cotta brick masonry, in place, the sum of fifteen dollars ($15) per cubic yard.

Item 11. For grout of Portland cement, the sum of four dollars and fifty cents ($4.50) per barrel of Portland cement used.

Item 12. For timber piles, in place and prepared, the sum of one dollar and twenty-five cents ($1.25) per lineal foot.

Item 13. For timber foundations, placed and fastened, the sum of seventy-five dollars ($75) per thousand feet, board measure.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of two dollars and fifty cents ($2.50) per cubic yard.

Item 15. For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of seventy-five cents ($0.75) per square yard.

(b) For two-ply, the sum of one dollar ($1) per square yard.

(c) For three-ply, the sum of one dollar and fifty cents ($1.50) per square yard.

(d) For four-ply, the sum of one dollar and seventy-five cents ($1.75) per square yard.

(e) For five-ply, the sum of two dollars ($2) per square yard.

(f) For six-ply, the sum of two dollars and fifty cents ($2.50) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of thirty dollars ($30) per cubic yard.

Item 17. For vitrified or cast iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of one dollar and seventy-five cents ($1.75) per linear foot.

(b) For ten (10) inch vitrified pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(c) For eight (8) inch vitrified pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

(d) For six (6) inch vitrified pipe, the sum of one dollar ($1) per linear foot.

(e) For four (4) inch vitrified pipe, the sum of seventy-five cents ($0.75) per linear foot.

(g) For six (6) inch cast iron pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

(h) For four (4) inch cast iron pipe, the sum of one dollar ($1) per linear foot.

Item 18. For tunnel ducts in place as required by section 305 of the specifications, the sum of fifteen cents ($0.15) per duct foot.

Item 19—For riveted steel, painted and erected, the sum of ninety dollars ($90) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of eighty dollars ($80) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of sixty-five dollars ($65) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of seventy-five dollars ($75) per ton of two thousand pounds.

Item 26. For wire mesh, in place, the sum of ten cents ($0.10) per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand-rail, in place, including expansion bolts, etc., the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 28. For steel gratings, for ventilation, in place, including frames, etc., the sum of two dollars and fifty cents ($2.50) per square foot.

Item 29. For vault lights, in place, the sum of two dollars ($2) per square foot.

Item 30. For street surface restored:

(a) For street surface, except roadways, the sum of three dollars ($3) per square yard.

(b) For temporary restoration and maintenance of roadways, the sum of three dollars ($3) per square yard.

Item 32. For wrought-iron or fibre electric conduits, in place, in stations as follows:

(a) For three-fourths (¾) inch wrought-iron conduits, the sum of thirty cents ($0.30) per linear foot.

(b) For one and one-half (1½) inch wrought-iron conduits the sum of forty-five cents ($0.45) per linear foot.

(c) For two (2) inch wrought-iron conduits the sum of sixty cents ($0.60) per linear foot.

(d) For two (2) inch fibre conduits the sum of fifteen cents ($0.15) per linear foot.

Item 33. For cast-iron outlet boxes, in place, in stations, the sum of one dollar ($1) each.

Item 34. For six (6) inch cast-iron pipe and fittings including specials "extra heavy" in place, in stations, the sum of two dollars and fifty cents ($2.50) per linear foot.

SEWERS—ITEMS 37 TO 74.

Vitrified and Cast-iron Pipe—Items 37 *to* 43.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of six dollars ($6) per linear foot.

Item 42. For cast-iron sewer pipe (straight pipe) in place in the work, the sum of fifty dollars ($50) per ton of two thousand pounds.

Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of fifteen ($15.00) dollars per linear foot.

Item 46. For 3 feet 9 inches by 2 feet 6 inches, the sum of fifteen dollars ($15) per lineal foot.

SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric railroads, the sum of eighteen dollars ($18) per linear foot of single track.

(b) For horse railroads, the sum of five dollars ($5) per lineal foot of single track.

PIPES IN STREETS—ITEMS 77 TO 126.

For Work and Material as Called for by Section 71 *of the Specifications.*

Water and Gas Pipes—Items 77 *to* 108.

Water Pipes—Items 77 *to* 88.

For water pipes in place, as follows:

Item 78. For 4-inch water pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 79. For 6-inch water pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

Item 82. For 12-inch water pipe, the sum of two dollars ($2) per linear foot.

Item 88. For 48-inch water pipe, the sum of five dollars ($5) per lineal foot.

Gas Pipes—Items 89 *to* 99.

For gas pipes in place, as follows:

Item 90. For 4-inch gas pipe, the sum of one dollar ($1) per linear foot.

Item 91. For 6-inch gas pipe, the sum of one dollar and twenty-five cents ($1.25) per linear foot.

Item 92. For 8-inch gas pipe, the sum of one dollar and fifty cents ($1.50) per linear foot.

New Cast-Iron Hub and Spigot Water and Gas Pipe.

Items 100 *and* 101.

Item 100. For new cast-iron hub and spigot straight pipe delivered on the work, the sum of forty dollars ($40) per ton of 2,000 pounds.

Item 101. For new cast-iron hub and spigot pipe, special castings, delivered on the work the sum of seventy dollars ($70) per ton of two thousand pounds.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)

Item 127. For electric ducts and conduits in place, as provided in section 71-a of the Specifications, the sum of twenty-five cents ($0.25) per duct foot.

Work Not Susceptible of Classification.

Article 12. In case any work or materials shall be required to be done or furnished in or about the works—whether specified herein or indicated on the plans or not—which are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will if ordered by the Engineer do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten per centum (10%) of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above, but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedule, except as otherwise herein expressly provided.

In case any work or material shall be required to be done or furnished under the provisions of this article, for cost plus ten per centum (10%), the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memorandum showing the work and materials actually paid for and the actual prices therefor.

Quantities Approximate Only.

Article 13. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract, specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the works under this contract; and neither the City, nor the Commission, nor any member of the Commission, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the works, be found even approximately correct in the construction of the works; and the Contractor shall make no claim for anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article 14. The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings.

Plans May be Modified.

Article 15. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interest, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages

or extra service other than is provided for items of the different classes of construction shown in the schedule, or where not susceptible of classification, then as otherwise provided herein.

Contractor Bound to Complete in Best Manner.

Article 16. The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the other provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices herein agreed upon.

Best Materials, Machinery, Tools, etc., to be Used.

Article 17. The Contractor shall furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, etc.

Article 18. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to, damages or an extension of time for completion of the works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, etc.

Article 19. No acceptance of any part of the works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any part of the works.

Inspection.

Article 20. The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates of all work and materials and of the manufacture or preparation of such materials from the beginning of construction to the final completion of the works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

Article 21. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and all employees of the Commission bearing his authorization or the authorization of the Commission or its Chairman, shall be admitted at any time summarily and without delay to any part of the works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Engineer to be Furnished Facilities.

Article 22. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory; the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article 23. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, nothwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work, or any part thereof, shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials.

Engineer's Determination to be Final and Conclusive Upon Contractor.

Article 24. To prevent disputes and litigations, the Engineer shall in all cases determine the amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain.

Article 25. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the railroad. The Contractor shall afford such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any differences or conflicts which may arise between the Contractor and other contractors of the Commission in regard to their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article 26. Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

III.—Specifications.

Specifications and Drawings Subject to Requirement of Railroad of Highest Class.
Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section 1. The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract. are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either in advance to show all details, or precisely to forecast all exigencies The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The Railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of New York, in the best manner, according to the best rules and usages of railroad construction, and in the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

To Construct in Accordance With Specifications.

Section 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class of work where applicable or as provided in Article XII. of the contract.

Maps and Drawings.

Section 3. The contract plans referred to in the contract and specifications bear date June 15, 1910, are each countersigned by the Engineer, are stamped with the seal of the Commission, bear the general title:

Route No. 5.

Contract Drawing No. ....

and are designated or numbered as follows:

General Notes; Map and Profile; Nos. A13, B25, B26, B101, B102, C1 to C19, inclusive, C1010, C1015, C401, C1032.

Plans and Contract Drawings.

Section 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Where, however, changes are deemed necessary they may be ordered under Article XV. of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract drawings, but designated as supplementary drawings. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the nature of the soil underlying portions of the route, the nature and position of elevated and surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface and subsurface structures.

Supplementary Drawings May be Examined.

Section 6. These supplementary drawings, for each section of the work, can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue prints) of these drawings for one or more of the sections, for such aid, if any, as may be derived from them, on the payment of the cost of printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section 7. If, upon opening the streets, by tunneling or otherwise, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings, or by the samples of the test borings, or if additional surface or subsurface structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, adjust or readjust, as the case may be, the additional or different surface or subsurface structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications Not Exclusive.

Section 8. It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive.

Section 9. These specifications arer grouped in subdivisions as follows:

PAGE
1. Description of the Work ... 76
2. General Clauses ... 77
3. Manner of Prosecution and Maintenance of Traffic ... 88
4. Street Railroad Tracks, Mains and Other Surface or Subsurface Structures 96
5. Excavation ... 102
6. Tunneling ... 112
7. Backfiling ... 120
8. Piling and Timbering ... 121
9. Cement ... 123
10. Bortar ... 127
11. Masonry ... 128
12. Concrete ... 130
13. Brick Masonry ... 137
14. Stone Masonry ... 139
15. Waterproofing ... 140
16. Steel and Iron ... 145
17. Painting ... 157
18. Ducts and Conduits ... 160
19. Drains and Pumps ... 167
20. Sewers ... 171
21. Requirements for Pipes ... 197
22. Street Surface and Park Surface Restored ... 206
23. Vault Lights, Gratings and Hand-rails ... 209

1—Brief Description of the Work.

General Nature.

Section 10. The Rapid Transit Railroad which is hereinbefore described is to be an underground railroad or subway, the general details of construction and the location of the various tracks, junctions, grades, etc., being indicated more particularly on the contract drawings.

Stations to be Constructed.

Section 11. Stations are to be constructed at such places as are indicated on the plans, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidently with the completion of the Railroad.

Surface and Subsurface Structures.

Section 12. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Chambers and Gratings.

Section 13. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of necessary ventilating devices shall be built at the sides of the Railroad and in connection therewith. These chambers shall be generally of the form and dimensions as shown on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from the chambers, suitable air-ways, ducts or flues shall be constructed.

The chambers will be built at the places and as indicated on the plans.

Section 14. Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad.

Section 15. The chambers will be provided with suitable doors or openings, and with ladders reaching to the street for use as exits in case of emergency.

2—General Clauses.

Prevention of Water Percolation.

Section 16. It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section 17. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section 18. All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyances to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section 19. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system, which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall fail so to prosecute his work that, in the judgment of the Engineer, it shall not be reasonablly probable that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section 20. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section 21. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the material needed for construction has been acquired and is available. Such permits are to be in such form and to cover such portions of the work as the Commission shall prescribe.

When to be Filed with Borough President.

Section 22. Before any opening is made in the surface of a street. a copy of the permit issued by the Commission shall have been filed with the Borough President not less than five days, unless the Engineer shall expressly direct work to begin within a less period.

Notice Regarding Commencement of Work.

Section 23. Before commencing work on any part of the route, whether on the Railroad or on the sewers lying off the line of the Railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured.

Shafts and Dumping Platforms.

Section 24. Plans showing the proposed location, and proposed methods of construction, of shafts, dumping platforms, etc., shall be submitted to the Engineer and receive his approval before permits will be granted for such plant and appliances to be constructed and put in operation.

Ordinances and Regulations.

Section 25. In all operations connected with the Works, all ordinances of the City, and of the Board of Health. so far as they may be valid and operative with respect thereto, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, shall be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and Harbor of materials used in, or in connection with, the work.

Requirements of Borough President, etc., to be Observed.

Section 26. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Building and Water Permits; Shut-offs for Water Pipes, etc.

Section 27. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shall bear the cost of the service of inspectors required by any municipal department or other public authority in or about the execution of the work other than the inspectors or the employees of the Commission. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same and of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in section 70 of the specifications.

Storage on Cross Streets.

Section 29. No material of any nature shall be stored along the streets occupied by the Railroad in Manhattan or on 138th street, in The Bronx. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of such structural material as may be absolutely necessary to avoid delay in construction may be stored; such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

Material Stored.

Section 30. Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section 31. In any case material may only be so stored with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Access to Fire Hydrants.

Section 32. Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Work to be Cleared.

Section 33. At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition.

Assistance to be Rendered to Owners of Buildings.

Section 34. Where access to any adjacent property is temporary cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost. tender every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Waste Material.

Section 35. Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section 36. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense, wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section 37. Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Advertisements Forbidden.

Section 38. The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

Barricades.

Section 39. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Detailed Drawings.

Section 40. The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the contract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the railroad. These plans must be strictly followed, unless local conditions should develop, during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

Section 41. The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work called for by said working or shop drawings shall be done until the approval of the Engineer be obtained, which must be given or refused within ten (10) working days after delivery to him at his office of such plans in duplicate.

Lines and Grades.

Section 42. During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the Railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work. The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs for making measurements.

Notice, How Given.

Section 43. When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by, the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Imperfect Work.

Section 44. Any imperfect construction which may be discovered before the final acceptance of the work, shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to be Replaced.

Section 45. All work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause, so much of it as may be objectionable shall be broken up or removed and be replaced by good and sound work at the Contractor's expense.

Condemned Materials to be Removed.

Section 46. If any material brought on the ground for use in the work or selected for the same shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials as may be directed by the Engineer.

Competent Men.

Section 47. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

3—MANNER OF PROSECUTION AND MAINTENANCE OF TRAFFIC.

Access to Buildings, etc.

Section 48. No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto; and, where streets are open suitable bridges shall be built and maintained, at the Contractor's expense, to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Wharves and Docks.

Section 50. For that portion of the route adjoining wharves and docks the work must be so prosecuted as to permit free access to neighboring wharves and docks.

Contiguous Contract Sections.

Section 50-a. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of ten feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Other Portions of the Route.

Section 51. Generally the Contractor will be permitted to conduct its work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section 52. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both in longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section 53. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work when the excavation is in trench the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over, and every precaution must be taken to keep traffic free from interruption.

Street Intersections.

Section 61. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted must be kept at all times open to traffic for at least one-half the width of the cross roadway, except that cross roadways in which surface railroads are located shall be kept at all times open to traffic for their full width.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Close Observance of Above Requirements.

Section 62. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

Openings for Ventilation.

Section 63. Wherever the excavations are decked, where gas pipes are maintained in service or where gases are liable to accumulate, suitable openings shall be provided for proper ventilation, or the Contractor may maintain services by temporary mains above the street decking.

Temporary Pipes, etc.

Section 64. Temporary pipes, if laid above the street or sidewalk surfaces, shall be neatly and substantially placed, and in a manner to cause the minimum of inconvenience to the abutting property owners and to the public.

In General.

Section 65. In general, work will, as provided herein, be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of its contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

4—STREET RAILROAD TRACKS, MAINS AND OTHER SURFACE OR SUBSURFACE STRUCTURES.

Notice to be Given.

Section 66. Notice is to be given by the Contractor to all companies and the proper City officials, owning or having charge of surface or subsurface structures along any part of the work. of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans Furnished.

Section 67. In the rearrangement of subsurface structures requiring removal and relaying or reconstruction due to interference with the railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plan, such changes will then be made, if, in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer, will be final.

Reconstruction or Relaying, etc.

Section 68. Whenever it becomes necessary to cut, move, change, or reconstruct any surface or subsurface structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such pipes or other structures.

Reasonable Dispatch.

Section 69. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, etc.

Section 70. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface and subsurface structures encountered during the prosecution of his work. All surface and subsurface structures and surfaces of whatever character along the line of the work shall be protected from injury, but should any injury occur the Contractor shall fully restore such surface or subsurface structures or surfaces to as good a condition as existed before the injury was done. All the above, including also all changes of surface or subsurface structures made by the Contractor for his own convenience in executing his work, shall be done at the Contractor's own expense and included in the prices stipulated in the schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section 71. Changes of water, gas, steam or other pipes made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such pipes and their appurtenances in other than the original position, will be paid for at the prices stipulated in Schedule Items 77 to 99, Items 102 to 106, Items 109 to 114, Items 121 and 122, and Item 125. These prices are per linear foot of pipe laid including all work, labor and material incidental to such laying, excepting that:

(1) If new pipes have to be provided and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100 and 101, Items 107 and 108, Items 115 to 120, Items 123 and 124, and Item 126, which prices are to cover the cost of the new pipes delivered on the work.

(2) If the pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restora-

tion of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), and for restoration of street surface, Item 30-A and B, but only to the net lines ordered by the Engineer for excavation for such pipe work.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section 71-a. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75-A), made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the price stipulated in Schedule Item 127. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place; of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work and material incidental to and necessary for the completed duct lines.

Surface and Elevated Railroads.

Section 72. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface, subsurface and elevated railroads along the line of or crossing the line of the work.

Surface Railroads.

Section 73. The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads (including steam railroads), including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor will be at the rates specified in the Schedule for electric railroad, Item 75-A, or for horse railroad, Item 75-B, which prices will include the cost of all work incidental thereto. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Elevated Railroads.

Section 74. The Contractor shall maintain and support both temporarily and permanently in a safe condition all elevated railroad structures. Payment therefor will be at the rate specified in Schedule Item 76, which price will include the cost of all incidental work, including the reconstruction and building where necessary of all column foundations and parts of column foundations lying without the net lines of the subway structure.

Subsurface Railroads.

Section 75. The Contractor shall support and maintain both temporarily and permanently in a safe condition all subsurface railroads and their appurtenances. Payment therefor shall be deemed included in the prices for excavation, Schedule Items 1, 2 and 3.

Facilities to be Given to Make Extensions.

Section 76. In the event of the owners or the City desiring to make any alteration or extension to their structures, or do any work to or in connection with surface or subsurface structures owned by them or it, at the time the work under this contract is in progress, the Contractor shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit solely of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission.

Parks and Parkways, Trees, etc.

Section 77. In any park or parkway, or where any grass plots or trees exist along any street occupied by the Contractor, proper precautions must be taken to protect from injury all such trees or grass plots. For every tree removed, injured or destroyed, the Contractor shall set out a new thrifty tree of the same kind as the tree removed, injured or destroyed, and not less than fifteen (15) feet in height and not less than three and one-half (3½) inches in diameter measured two feet above the surface of the ground, and in such position as the Commissioner of Parks shall indicate. All roads, cross-paths, grass plots, shrubbery and other plants

removed or affected by the construction of the railroad, shall be restored as soon as possible to as good a condition as existed before the commencement of the work.

Replanting Under Direction of Park Commissioner.

Section 78. In replanting trees and the replanting of grass plots the Contractor must be governed by the reasonable requirements of the Commissioner of Parks or by other authorities specially charged with the care of these trees or grass plots, and the nature and depth of the soil to be placed therein must be approved by such authorities and by the Commission.

Payments, How Made.

Section 79. Payment for all work covered by Sections 77 and 78 shall be included in the prices paid for Park or Street Surface Restored, Schedule Items 31 or 30.

5—EXCAVATION.

Width of Excavation.

Section 80. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the railroad, as shall be necessary in the opinion of the Engineer for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the railroad.

Depth of Trenches.

Section 81. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed or special foundation as may be deemed necessary by the Engineer.

Sides to be Secured.

Section 82. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheeting.

Section 83. Sheeting shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned.

Section 84. To secure adjacent ground or the buildings thereon, or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall secure the sides of the excavation by suitable timbering, and shall safely and permanently underpin adjacent buildings. As part of this obligation the Contractor shall use such methods of construction or underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve.

Payment For.

Section 86. Where underpinning of a building is necessary and the work is done as provided in Section 84, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4. The classification as to the number of stories has reference to the number of stories above the surface of the street.

Sheeting.

Section 87. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section 88. All timber used for sheeting, shoring, bracing, decking or other temporary purposes, shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of hard yellow pine, sound, straight and free from all shakes, and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

Vaults of Abutting Property.

Section 89. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section 102, but the restoration of all such walls or other parts of vaults within the ordered net lines of excavation will be paid for at the unit prices specified in the Schedule applicable to the several classes of work and material involved in such restoration.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be at the Contractor's own cost and expense.

Vaults Disturbed.

Section 90. Wherever vaults are broken through or otherwise disturbed, the Contractor shall, at his own cost and expense, erect a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Rock.

Section 91. Ledge rock in place, and boulders within the ordered line of excavation requiring blasting, will be considered as rock excavation.

Preparations for Rock Measurement.

Section 92. Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than 20 feet; and the engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Blasting.

Section 93. Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used. Blasting shall not be done between the hours of 11 p. m. and 7 a. m. without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section 94. No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and it shall be kept under lock, the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

Near Pipes and Mains.

Section 95. Whenever any pipe or main is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

General Precautions in Blasting.

Section 96. In rock excavation in the trenches for the railroad the work must be so regulated as to avoid, as far as possible, shattering the rock beyond the established line for excavation.

Blasting.

Section 97. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides,

and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section 98. Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The delivery from all pumps shall be conducted into the adjacent sewers, and the delivery pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Carts to be Tight.

Section 99. All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Removed Expeditiously.

Section 100. Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the Harbor of New York.

When Excavated Material May be Taken by the City.

Section 101. If at any time during the course of construction the City shall desire for City purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section 102. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders requiring blasting.

Excavation in Trenches, How Measured.

Section 103. The net outside width of the railroad structure, as ordered and indicated on the plans, and the depth, also as ordered and as indicated on the plans, will govern as to width and depth in the measurements for payment for excavation. No deduction from the volume of excavation determined as above, will be made on account of basements or cellars in property acquired by the City for the construction of the railroad or on account of vault space or of spaces occupied by pipes and other subsurface structures.

No Allowance Outside of Ordered Net Lines.

Section 104. There will be no measurement or allowance made nor money paid for excavation outside (below or wider than) the net measurement lines as above indicated, or in rock excavation, for irregularities of surface; and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the schedule.

Change of Street Grade.

Section 105. Where the contract drawings indicate that the grade of any street is to be raised the Contractor shall fill in the street to the changed grade as required and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section 106. Excavation shall be paid for at the price or prices given in Schedule Items 1 and 2 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section 107. The prices herein stipulated for excavation, Schedule Items 1, 2 and 3, are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance, support, etc., of all surface and subsurface structures of whatever nature, payment for the maintenance and support of which is not herein elsewhere specifically provided for.

6—TUNNELING.

How Lined.

Section 108. All tunnels shall be lined with steel or cast iron and concrete, or with concrete or brick masonry.

Where tunnels are lined with concrete or brick work without metal tubes, proper provisions shall be made for keeping the tunnels dry by the use of drains, and by other methods as elsewhere provided.

Packing.

Section 109. The space between the extrados of the arch or back of the sidewalls and the rock or other materials of excavation, shall be filled with concrete to a height of two feet above the spring line of the arch—above this concrete the space shall be filled with dry masonry packing. Similarly in the tunnel floor, if concrete is used, all loose muck shall, if directed by the Engineer, be removed to the solid rock and the space filled in with concrete up to the bottom line of the section ordered by the Engineer for tunnel excavation and concrete. All such concrete or other packing, being outside of the net section line for excavation as ordered by the Engineer, shall be at the sole expense of the Contractor.

Grout.

Section 110. After the tunnel lining and packing is in place, if required by the Engineer, a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part Portland cement, shall be pumped in under pressure, from time to time behind the masonry, so as to completely fill all the voids. Where tunnels are made by the use of a shield, similar grout shall be pumped in to completely fill the space left by the tail piece of the shield as soon as the shield is moved forward.

Payment for Grout.

Section 111. Where grout is ordered and used, it shall be paid for at the price herein provided, Schedule Item 11.

Lines for Excavation.

Section 112. The tunnel, at any place, is to be excavated to the line of the cross-section ordered by the Engineer for that place.

No Payment for Excavation Beyond Ordered Lines.

Section 113. All loose or shaky rock, whose fall or settlement might, in the judgment of the Engineer, produce an unequal or concentrated pressure on the masonry, shall be removed, and the space refilled with such class of masonry as the Engineer may require and as provided in Section 109, but no payment will be made for any excavation outside of the cross-section of the tunnel excavation ordered by the Engineer, as provided in Section 112.

Blasting.

Section 114. Drilling and blasting must be conducted with all possible care and in such a manner as not to shatter the roof and sides outside of the section lines, as ordered by the Engineer, nor endanger adjoining property.

Drains.

Section 115. All seams carrying water shall be carefully drained, as specified under the clauses relating to drainage.

Precautions Against Settlement.

Section 116. The Contractor must take every precaution, and such precautions as the Engineer may direct, by suitable shields, timbering, lagging or other supports, to prevent any settlement or movement of surrounding ground. Such timber as cannot be drawn without endangering the work or the ground above, shall be left in place and thoroughly surrounded by masonry and grouted.

Timbering.

Section 117. Timbering shall be used wherever necessary to support the materials or to secure the safety of the work or workmen. It will be at the sole expense of the Contractor and included in the contract price for tunnel excavation, Schedule Item 5. Wherever practicable it shall be removed before the concrete lining or concrete or other packing is placed.

Compressed Air.

Section 118. If for the work under the Harlem River and for the approaches thereto or elsewhere on the work a method is adopted requiring the use of compressed air, a plant must be provided of sufficient capacity to insure at all times and under all conditions an ample supply of air to prosecute the work with safety and dispatch, and proper air locks shall be built with safety locks, in addition to provide for the escape of workmen at time of accident.

Methods to be Approved.

Section 119. All methods of tunneling shall be subject to the approval of the Engineer, and be changed from time to time, if, in his judgment, the local conditions so require, and during construction approved methods of ventilation and lighting shall be used.

Tunneling, Payment For.

Section 120. The price per cubic yard, stipulated herein, Schedule Item 5, for tunnel excavation, is to cover all expense due to the presence of quicksand or other soft material, rotten rock, boulders, etc.; the cost of all pumping and bailing; of all timbering, and removal of same; of removing all excavated material; of all ventilation and lighting; and of all other work incident to the excavation of the tunnel. Any expense that may arise from loose or shaky rock or from falls or cave-ins, or from any unexpected obstacles, shall be borne by the Contractor. In earth sections the tunnel excavation must be large enough to permit building the masonry to the full required thickness, clear of such timbering and lagging as it may be necessary to build in. As a fair provision for such contingencies, it is assumed that the excavation will extend an average distance of one (1) foot outside the net line in the roof and sides and six (6) inches below the net line in the floor, and measurements for payment in tunnel excavation in earth will be made to those lines. It is distinctly understood, however, that no such allowances or any other allowance in tunnel excavation will be made in connection with timbering in tunnel excavation in rock.

Chambers, Drains, etc.

Section 121. Excavations for chambers, for skewbacks of arches, for sump holes, drains or for any other purpose in the tunnel, are to be measured according to the lines of the cross-sections determined by the Engineer, and paid for by the cubic yard as tunnel excavation.

Additional Enlargement.

Section 122. If after the excavation has been made of a certain size by direction of the Engineer, he is of opinion that the nature of the rock or other material is such that the form and dimensions of the masonry for which said excavation was intended must be increased, he may order an enlargement of the excavation for the purpose of building masonry of greater thickness, and the Contractor is to make such enlargement, which is to be measured according to the lines given by the Engineer, and paid for at the price per cubic yard stipulated in the schedule for tunnel excavation.

7—Backfilling.

Quality of Material. How Placed.

Section 128. The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six inches in depth.

Subsurface Structures. Frozen Material Not Permitted.

Section 129. Whenever pipes, sewers or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

Section 130. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, or shall be left in place, as may be directed by the Engineer, and the spaces left by the removal of such material carefully back-filled.

How Paid For.

Section 131. The cost of backfilling is to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2, 2-A, 3 and 3-A.

8—PILING AND TIMBERING.

Piles.

Section 132. If in the judgment of the Engineer the ground is of such a character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good sound pine or spruce, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

Piles Driven in Required Location.

Section 133. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section 134. The price herein stipulated to be paid, per linear foot of timber piles, Schedule Item 12, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section 135. If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Payment for Piles Other Than Timber Piles.

Section 136. Payment for piles other than timber piles will be as provided in Article XII. of the contract.

Grillage.

Section 137. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section 138. All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by spikes or good seasoned oak or locust treenails.

Foundation Timber, Measurement and Payment.

Section 139. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his direction. Payment for foundation timber will be as provided in Schedule Item 13.

9—CEMENT.

Portland Cement.

Section 140. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks, to which no addition greater than three (3) per cent. has been made subsequent to calcination.

Brand to be Approved.

Section 141. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section 142. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section 143. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section 144. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section 145. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO_3) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section 146. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 inch and 0.0024 inch in diameter.

Time of Setting.

Section 147. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours. .

Soundness.

Section 148. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section 149. Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength, per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days—one (1) day in air, six (6) days in water—of not less than five hundred (500) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than six hundred (600) pounds. The strength at twenty-eight (28) days shall not be less than that at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, shall have at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than two hundred (200) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Long-time Tests.

Section 150. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section 151. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section 152. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section 153. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

10—MORTAR.

Cement and Sand. Mixing.

Section 154. All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

Section 155. For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half (3½) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and one (1) part sand; for concrete masonry, as specified under the head of concrete; and for other classes of work, as directed by the Engineer; for grout, one (1) part of cement to one (1) part of fine sand.

11—MASONRY.

Laid in Portland Cement.

Section 156. All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Section 157. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section 158. During freezing weather such masonry only shall be built whose construction, in the judgment of the Engineer, can not be postponed, except at the cost of delaying the work. The Contractor shall provide such appliances as are necessary for heating the water and the materials used in the masonry according to the specific instructions of the Engineer.

Protected in Freezing Weather.

Section 159. During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Hot Weather.

Section 160. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section 161. Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two days after being laid, to a depth of at least two inches.

Section 162. Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

Section 163. No pointing shall be done in freezing weather, and masonry laid between December 1 and April 1 shall not be pointed until permitted by the Engineer.

Defective Masonry.

Section 164. Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

Section 165. All stone before being laid shall be thoroughly cleaned and washed if so directed by the Engineer.

12—CONCRETE.

How Composed.

Section 166. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below.

Sand.

Section 167. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section 168. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section 169. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths (⅜) inch in diameter, and no pieces that will not pass through a hole one and one-half (1½) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths (⅜) and three-fourths (¾) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section 170. In concrete, where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may embed in the same pieces of sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters (¾) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly embedded. No two (2) stones shall be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Proportions.

Section 171. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section 172. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone. Concrete for tube tunnels under the Harlem River will be as indicated on the plans.

Section 173. Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, four (4) parts of sand and eight (8) parts of stone.

Mixing by Machine.

Section 174. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used.

Mixing by Hand.

Section 175. When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet, as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Section 176. Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or spading, special tamping bars or tools being used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Section 177. Concrete to which waterproofing is to be applied shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Section 178. Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface to be Cleaned.

Section 179. Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Section 180. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete is laid, the surface shall be left rough to form a bond with the new work; and if deemed necessary by the Engineer, the points shall be reinforced with steel bars or dowls, to be furnished by the Contractor.

Joints Cleaned.

Section 181. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section 182. Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Section 183. No forms made of wood, and covered with iron will be permitted.

Section 184. The forms, if made of wood, shall be made of boards with tight joints, tongued and grooved, if required by the Engineer.

Precautions in Placing.

Section 185. Every precaution shall be taken in placing or assembling the forms to do so in such a manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface.

Forms, How Set. Forms Removed. Surface Irregularities Corrected. Defective Work Replaced.

Section 186. The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before

placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Reinforcement Steel.

Section 187. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not to be Painted.

Section 188. The exposed faces of the concrete, excepting within station limits, shall be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids, as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

Impervious to Water.

Section 189. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Concrete, How Measured and Paid For.

Section 190. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centres, forms, etc., and removing the same, and all work incidental thereto.

Backing or Filling Concrete, Not Paid For.

Section 191. No concrete backing or filling outside of the ordered net lines of excavation will be paid for.

(For Concrete in Sewers, see Sewers.)

13—Brick Masonry.

Quality.

Section 192. Bricks for masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Section 193. Hollow terra cotta blocks or bricks may be required in station work, on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

How Laid.

Section 194. All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work (except in stations) not exceeding one-quarter (¼) of an inch in the beds, and three-eighths (⅜) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

Section 195. The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centres have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

Section 196. All bricks of whatever nature shall be carefully culled and, if necessary, gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

Racked or Toothed.

Section 197. All unfinished work shall be racked or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Section 198. Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centres and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

Measurements and Payments.

Section 199. Brick masonry shall be measured to the lines indicated and shown on the plans and as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry, and Item 10 for hollow terra cotta brick or tile masonry; these prices are to include the cost of all scaffolding, forms, centres, etc., and the removal of the same, of all plastering and pointing, and of all other work incidental thereto.

14—STONE MASONRY.

Rubble Stone Masonry, Where Used.

Section 200. Rubble stone masonry will be used for supporting the street railroads over the roof of the Railroad where permanent supports are required, or at such other places as the Engineer may require.

How Laid.

Section 201. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Measurements and Payments.

Section 202. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8.

Other Masonry.

Section 203. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article 12 of the contract.

15—WATERPROOFING.

General Limits of Waterproofing.

Section 204. In general, waterproofing of the structure will be limited to the roof and sidewalls at the stations, and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

Protecting Masonry.

Section 205. The protecting masonry shall be hollow terra cotta blocks, common brick or concrete, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section 206. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section 207. All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a treated woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

Section 208. The term "ply" as used in these specifications shall mean a layer of treated woven fabric, both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of "Ply."

Section 209. The number of plies of waterproofing on the sides at stations shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

Brick in Asphalt Mastic.

Section 210. Over the roof of the structure within station limits and over the tracks passing through the stations within said limits, also on the sides and bottom of the structure below a line of two (2) feet above ground water, or if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

Quality of Brick.

Section 211. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section 212. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Section 213. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section 214. Asphalt mastic shall contain one-third (1-3) pure bitumen, the other ingredients to be sand and lime dust or cement, in proportions governed by local requirements and weather conditions.

Leaks Stopped.

Section 215. Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped, at the sole expense of the Contractor.

Quality of Pitch.

Section 216. Pitch shall consist of either coal-tar or natural asphalt as the Engineer shall elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Coal-tar Pitch.

Section 217. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25) per centum and not more than thirty-two (32) per centum of free carbon, which will soften at approximately 70° F., and melt at 100° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Asphalt.

Section 218. The asphalt used shall be the best grade of Bermudez, lake or other natural asphalt, subject to the approval of the Engineer, and shall comply with the following requirements:

The asphalt shall contain in its refined state not less than ninety-five (95) per cent. of natural bitumen soluble in rectified carbon bisulphide or in chloroform. The remaining ingredients shall be such as not to exert an injurious effect on the work. Not less than two-thirds (2-3) of the total bitumen shall be soluble in petroleum

naphtha of seventy (70) degrees Baume or in acetone. The asphalt shall not lose more than four (4) per cent. of its weight when maintained for ten (10) hours at a temperature of three hundred (300) degrees Fahrenheit.

Woven Fabric for Waterproofing.

Section 219. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

Section 220. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, it is impracticable to have the concrete dry, then there shall be first laid a layer of the treated fabric, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of fabric shall then be counted as one of the required plies.

Each layer of pitch or asphaltum fluxed as directed by the Engineer must completely and entirely cover the surface on which it is spread without cracks or blowholes.

Fabric for Waterproofing to Be Carefully Laid.

Section 221. The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken by overlapping, and that the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Section 222. When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

Skilled Labor to Be Employed.

Section 223. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section 224. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

16—STEEL AND IRON.

Open Hearth Process.

Section 225. Steel shall be made in open hearth furnace.

Chemical and Physical Properties.

Section 226. The chemical and physical properties of finished material shall conform to the following limits:

Properties	Structural Steel.	Carbon Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph. "	.05%	.04%	.05%
Mn. "	.60%	.60%	.80%
Si. "	.10%	.10%	.35%
Ult. Str.	60000±4000	50000±4000	65000±(Min.)
Yield Point	55% Ult.	55% Ult.	35000±(Min.)
Elongation	$\frac{1500000}{\text{Ult. Str.}}$	$\frac{1500000}{\text{Ult. Str.}}$	20% in 2″
Fracture	Silky.	Silky.	Fine granular.
Cold Bend	180° flat.	180° flat.	120° (d.=3+.)

Yield Point.

Section 227. The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the inspector.

Finish.

Section 228. Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel Castings.

Section 229. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section 230. The tensile strength, yield point and ductility of the material shall be determined from a standard test piece of not more than two (2) inches in width, and about one-half (½) square inch in sectional area, cut from a full sized bar, with sides turned or planed parallel so as to give a uniform minimum section for at least nine (9) inches. Whenever practicable the two sides of the test piece shall be left as they come from the rolls, but the finish on opposite sides shall be alike in this respect.

Specimens for Bending.

Section 231. Specimens for bending shall be cut from the material as rolled.

Rivet Rods.

Section 232. Rivet rods shall be tested as rolled.

Steel Castings.

Section 233. For steel castings the test piece shall be turned to a uniform minimum section of one-half (½) inch diameter, for a length of at least two and one-half (2½) inches. Specimens for bending shall be one (1) inch by one-half (½) inch in section.

Ductility Elongation.

Section 234. In determining the ductility, the elongation shall be measured after breaking on an original length as specified, in which length shall occur the curve of reduction each side of the point of fracture.

Where Taken From.

Section 235. For rollers the specimens shall be cut from the finished bar so that the centre of the specimen shall be one inch from the outside of the bar.

Section 236. For steel castings the specimens shall be cut from coupons cast on some portion of a casting from each melt, and shall be annealed with the casting before it is cut off.

Treatment of Test Specimens.

Section 237. The material from which test specimens are cut shall receive the same treatment as the material which it represents in the finished structure.

Number of Tests.

Section 238. At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths (⅜) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled.

Variation in Weight.

Section 239. A variation in weight of any piece of steel of two and one-half (2½) per centum from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Section 240. Each finished piece of steel shall be marked with the melt number, excepting that bars for reinforcing concrete shall be bundled and the melt number stamped on a metal tag attached to each bundle.

WROUGHT IRON.

Double Rolled.

Section 241. All wrought iron shall be double rolled, and no scrap used in its manufacture. It shall be thoroughly welded in rolling, shall be tough, ductile, and fibrous, and shall be finished straight and smooth. It shall be uniform in quality and free from surface defects.

Method of Testing.

Section 242. The methods specified for testing rolled steel shall apply generally to wrought iron. It shall show by the standard test piece an ultimate strength of fifty thousand (50,000) lbs. per square inch, and a yield point of twenty-six thousand (26,000) lbs. per square inch. It shall bend one hundred and thirty-five (135) degrees with inner radius not to exceed twice the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

CAST IRON.

True to Pattern.

Section 243. All castings shall be true to pattern, out of wind and free from injurious imperfections. They shall be of a good quality of tough gray iron made by the cupola process. Sample test pieces, cylindrical in shape, one and one-quarter (1¼) inches in diameter, and fifteen (15) inches long, cast under the same circumstances as those which attended the casting of the full-sized piece, shall sustain at the centre, when resting upon two dull knife edges twelve (12) inches apart, a load of three thousand (3,000) lbs. with a deflection of at least one-tenth (1/10) of an inch before rupture.

WORKMANSHIP.

Quality.

Section 244 All workmanship shall be first class. All parts exposed to view shall be neatly finished. All nuts on the finished structure shall be hexagonal.

Rods Deformed Sections.

Section 245. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods and Bars.

Section 246. Bent rods and bars and other bent material shall be bent hot and annealed, except that obtuse bends in material less than one square inch section may be made cold when permitted by the Engineer. The bending shall be done before the material is delivered on the work. Except in special cases, all bends shall be made uniformly to template.

Material Straightened in Shop.

Section 247. All material shall be straightened in the shop before being worked in any way.

Holes Accurately Spaced.

Section 248. All holes shall be accurately spaced and punched. Unfair holes shall be reamed to exact match; drifting to enlarge the holes will not be allowed. Poor matching of holes will be cause for rejection.

Size of Punch.

Section 249. In punching, the diameter of the punch shall not exceed by more than one-sixteenth (1/16) of an inch, the diameter of the rivet to be used, and the diameter of the die shall be as small as may be required to punch a clean hole. When the materials to be sub-punched and reamed, a punch of diameter three-sixteenths (3/16) of an inch smaller than specified above shall be used, and all reaming shall be done after the material is assembled, with twist drills of one-sixteenth (1/16) of an inch greater diameter than the rivet to be used.

Sub-punching and Drilling.

Section 250. All material over seven-eighths (⅞) of an inch thick shall be drilled from the solid. Material over five-eighths (⅝) of an inch and not exceeding seven-eighths (⅞) of an inch in thickness shall be sub-punched and reamed. All other material may be direct punched.

Sheared Edges.

Section 251. Sheared edges of material exceeding five-eighths (⅝) of an inch in thickness, to be used in main members shall be planed at least one-eighth (⅛) of an inch.

Burrs Removed.

Section 252. All burrs shall be removed, and the members shall have all parts firmly drawn together with bolts before reaming or riveting is commenced.

Riveting.

Section 253. Rivets when driven shall completely fill the holes, and shall be machine driven wherever possible. They shall have full concentric heads or they shall

be countersunk when so required. Rivet heads shall not be flattened to less than half the diameter of the rivet on the line of the shank unless countersunk.

Use of Bolts.

Section 254. Generally the use of bolts instead of rivets will not be permitted, but when used in special cases the holes shall be reamed parallel, and the bolts turned to a driving fit.

Templates.

Section 255. All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting members shall be brought to a forcible contact.

Finished Members.

Section 256. Finished members shall be true and free from kinks, twists, or open joints. Ends of floor beams and stringers shall be finished square and true.

Rods Upset.

Section 257. Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Section 258. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed.

Abutting Surfaces Faced.

Section 259. All abutting surfaces, except flanges of plate girders, shall be neatly planed or faced perpendicular to the direction of the strain, so as to insure even bearings.

Stiffeners.

Section 260. Stiffeners of plate girders shall fit neatly against the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth (⅛) of an inch of flange angles.

Pins and Rollers.

Section 261. Pins and rollers shall be turned accurately to a gauge, and shall be of full size throughout. All pin-holes shall be bored truly and at right angles to the axes of the members to be connected, and shall fit the pins with a play not exceeding one thirty-second (1/32) of an inch.

Bed Plates Planed.

Section 262. Bed plates shall be planed. The bottom of the shoes shall be planed exactly parallel to the centre line unless otherwise shown. The cutting of the planing tool shall be in the direction of expansion.

Details Boxed.

Section 263. Nuts, bolts, rivets and other details shall be boxed.

Weight Marked.

Section 264. The weight of every piece and box shall be plainly marked upon it.

Inspection.

Section 265. Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship, with proper office facilities.

Mill Orders in Triplicate.

Section 266. The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled nor work done before the Engineer has been notified so that he may arrange for the Inspector.

Contractor Responsible.

Section 267. The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Errors in Plans.

Section 268. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Chemical Analysis.

Section 269. Chemical determination of the percentage of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel, as to fairly represent the melt. Two copies of such analysis shall be furnished to the Engineer or his Inspector.

Check Analysis.

Section 270. Check analysis shall be made, at the discretion of the Engineer, of the finished material, on drillings from pieces selected by the Inspector from parts suspected of being most highly segregated. These analyses shall not show a variation above the ladle analysis of more than twenty-five (25) per centum for phosphorus, nor more than fifty (50) per centum for sulphur. The analyses shall be made by a chemist designated by the Engineer.

Contractor to Make Tests.

Section 271. The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with necessary labor for testing.

Inspector's Office.

Section 272. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section 273. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground and to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel and Cast Iron.

Section 274. The prices to be paid for steel and cast iron are as herein provided in Schedule Items 19, 20, 21, 22, 23 and 24. These prices include the cost of material delivered and erected in the work, with the exception of Item 23, the placing of which is provided for in Item 22. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings.

Section 275. For other castings, not included in the above and not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25.

Wire Mesh.

Section 276. Wire mesh, of a character and weight to be approved by the Engineer, is to be furnished and placed around the lower flanges of the roof girders, and at other places as may be required, in order to hold the concrete in place.

Wire Mesh, Payment For.

Section 277. Wire mesh, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

17—PAINTING.

Section 278. All metal work, excepting as otherwise herein provided, shall be painted with three coats of paint, including the shop coat, of kind and quality approved by the Engineer. Lead or carbon paint will generally be required.

Shop Coat.

Section 279. All iron shall be scraped free from scale, and receive one coat of red lead paint as herein specified before leaving the shops. All surfaces which come

in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shops.

Quality of Red Lead.

Section 280. The red lead shall be strictly pure, and shall contain at least 80 per cent. of "true lead" ($Pb_3 O_4$). The color shall be a clean, pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk bolting cloth, not more than 1 per cent. shall be left on the screen.

Quality of Linseed Oil.

Section 281. The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212° Fahr. on a current of hydrogen, shall not show a deposit of foots nor a loss of over 0.4 per cent. for raw oil, nor over 0.2 per cent. for boiled oil. The specific gravity at 60° Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section 282. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section 283. Red lead paint shall be mixed in the proportion of 500 pounds of red lead to 5½ gallons of boiled linseed oil, and 11 gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section 284. Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat. If the Engineer so directs, on members or parts of members buried in concrete the shop coat will be omitted.

Structural Steel and Rods.

Section 285. Structural steel and rods to be embedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed but not painted before being incased in the concrete.

Second Coat Carbon Paint.

Section 286. The second coat of paint shall be a carbon paint approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon.

Metal to be Cleaned After Erection.

Section 287. After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Section 288. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer.

Third Coat, When Applied.

Section 289. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after a completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable. The several field coats shall be sufficiently tinted to be distinctive.

Surfaces in Contact.

Section 290. Surfaces of exposed members inaccessible after erecting, shall be cleaned and painted before erecting.

Recesses, etc.

Section 291. All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

Section 292. All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth, if necessary.

Rainy or Freezing Weather.

Section 293. No painting in rainy or freezing weather or on wet surfaces will be permitted.

Payments.

Section 294. Payment for painting is included in the prices for steel and iron.

18—Ducts and Conduits.

Vitrified Ducts—Quality and Size.

Section 295. The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters liable to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches, shorter lengths shall only be used as directed; generally in four-way form with circular holes, the least diameter to be three and one-half (3½) inches; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, tits, pits or blisters, which may tend to injure the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters (¾) of an inch.

Thickness of Ducts.

Section 296. The outside walls and webs of four-way ducts to be three-quarters (¾) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter (9¼) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

Ends Combed.

Section 297. The ends of ducts to be combed with two (2) sets of three (3) combings each, each combing to have a width of one-quarter (¼) of an inch and a depth of one-sixteenth (1/16) of an inch.

Glaze.

Section 298. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section 299. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section 300. The ducts shall be laid in beds of cement mortar about one-quarter (¼) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick unbleached muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. The muslin shall be not less than 56 by 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) inches. In laying the ducts care must be taken to close abutting joints so that practically the end of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

Mandrels.

Section 301. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section 302. The ducts shall be laid with dowel pins, at least two pins on the opposite sides horizontally.

Laid to Line.

Section 303. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To be Rodded.

Section 304. After the ducts are laid, and sufficient time is given to allow the mortar in beds to partially set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening.

If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening of three and one-half (3½) inches in all duct openings, the ducts shall be removed and relaid; all ducts, during construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section 305. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad.

Duct Manholes.

Section 306. Duct manholes shall be built at the sides of the railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about three hundred feet, and shall be on either or both sides of the Railroad, as necessary, in accordance with the location of the duct lines. They may vary in form as may be necessary to accommodate the work to local conditions.

Duct Manholes at Stations.

Section 307. Duct manholes will be built at the ends of the stations to provide for the passage of the ducts under the station platforms, and if found necessary on account of the lengths of stations, additional manholes will be constructed under the platforms.

Section 308. At manholes the ducts will be laid to conform to the special conditions.

Section 309. In all work where iron pipe or fibre conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Section 310. The iron pipe or fibre conduits required by section 309 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

Section 311. All iron conduit used for any purpose in connection with the work herein shall be of the best grade (Galvaduct or equal), standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. It shall be delivered to the work in bundles of full length pipes, each length marked with the trade-mark of the manufacturer. It shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Installation.

Section 312. All conduit shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Watertight.

Section 313. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a watertight job.

Fibre Conduits, Quality, Laying, etc.

Section 314. All fibre conduit shall be made of impregnated fibre equal to that manufactured by the Fibre Conduit Company of Orangeburg, New York.

It shall be of uniform thickness, having walls of not less than one-quarter (¼) inch and true cylindrical holes not less than two (2) inches in diameter. Lengths shall be not less than five (5) feet, and all ends shall be finished.

All joints shall be made by suitable finished sleeves fitting closely over the ends of the conduit and made watertight by making up with an approved bituminous compound.

After laying, all ducts shall provide a clear, true opening, free from obstructions and imperfections in any way injurious to the wires to be installed. All ducts shall be rodded and cleaned with an approved mandrel not less than one and three-quarter (1¾) inches in diameter and eighteen (18) inches long.

Built in Concrete, etc.

Section 315. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Not Built in Concrete.

Section 316. Conduit not built into the structure shall be supported by approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section 317. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section 318. Measurements for the above iron pipe or fibre conduits shall be per linear foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section 319. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a watertight joint. Covers shall be of cast iron and watertight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet box furnished and placed in the work shall be as herein stipulated in Schedule Item 33.

19—DRAINS AND PUMPS.

Railroad to be Drained.

Section 320. Every part of the Railroad, the stations and appurtenances connected therewith, must be arranged so far as possible that any water finding access thereto will be led away automatically to the City sewers.

Section 321. Where the Railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the Railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with subdrains lying beneath the Railroad and draining into the sewers.

Subdrains.

Section 322. Along such parts of the work where the soil is not porous, or where the floor of the Railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding fifteen (15) inches, as the Engineer may direct, and there shall be one (1) such drain for each two (2) tracks. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Connections and Cross Drains.

Section 323. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps, and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the Railroad shall be as necessity demands and all as directed by the Engineer. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron, as directed.

Broken Stone for Drainage.

Section 324. On the roof of the Railroad and at other points as may be directed or indicated on the plans, broken stone shall be placed for the purposes of drainage.

Sumps.

Section 325. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the subdrains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section 326. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall each have a separate source of power, and shall be arranged to operate antomatically. Under this contract the Contractor will only furnish the pump or pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

The pumps shall be of the capacity required by the Engineer.

Capacity.

Section 327. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Delivery to Sewers, etc.

Section 328. The delivery of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains, Broken Stone, Pumps, etc.

Section 329. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Item 17. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever such as bends, tees, wyes, handholes, etc., and all materials necessary for jointing the same. Where back-pressure valves or gate valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Section 330. For broken stone for drainage, furnished and placed, Section 324, payment will be made as provided in Schedule Item 14.

Section 331.. For pumps, Section 326, the Contractor will be paid as provided in Article XII. of the contract, not including, however, the pipe connections with sumps and sewers which pipe will be paid for as hereinbefore provided in Schedule Item 17.

Soil Pipes for Stations.

Section 332. It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in positions as shown on the plans and will be paid for as provided in Schedule Item 34.

20—SEWERS.

In Accordance With Plans and Specifications.

Section 333. All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades, at the depths, with the connections, and in the manner called for by these specifications and shown on the drawings.

Change of Location.

Section 334. If in the opinion of the Engineer, it is impracticable during the progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

Section 335. The general clauses in this contract relating to excavation, both in open trench and tunnel, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface and subsurface structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims for Damages.

Section 336. Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of

departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section 337. The trenches for sewers and basin culverts both in earth and in rock, in streets along the route of the Railroad, shall have vertical sides and shall be not less than six inches wider than the greatest external width of the sewer or its foundation on the side farthest away from the subway; and in other streets the trenches shall have vertical sides, and shall be not less than six inches wider on each side than the greatest external diameter of the sewer, but shall be not less than three feet in width. They shall be excavated to the depth and to the form of the sewer or its foundation.

Limit of Trench Opening.

Section 338. Not more than one hundred (100) feet of trench in sewers off the line of the railroad shall be opened at any one time in advance of the sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section 339. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section 340. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the minimum excavation required in earth shall be to the lines of the smallest rectangle, enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be not less than six inches larger than the greatest external dimension of the manhole or receiving basin. In rock excavation, the trench shall be six inches larger than the greatest external dimension of the manhole or receiving basin, or its foundation, and shall have vertical sides to the surface.

Foundations.

Section 341. Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary, and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form, with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Inspection of Grades.

Section 342. When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized inspector, and no construction work shall be done in his absence.

Trenches to be Kept Free from Water.

Section 343. The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Tunneling.

Section 344. When tunneling for sewers shall be deemed advisable, it shall be done in a manner approved by the Engineer.

Gutter and Passageway to be Kept Open.

Section 345. At all times, gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Section 346. Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paving Material.

Section 347. All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

Section 348. The Contractor shall provide for the flow of all sewers, drains and watercourses, interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately cart away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Brick.

Section 349. In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two rings of bricks are required.

How Laid.

Section 350. The bricks shall be properly wet immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the points to be carefully struck on the inside.

Racked Back or Toothed.

Section 351. All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothed, unless by special permission from the Engineer.

Back or Stone Inverts.

Section 352. All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used for the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be watertight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

Section 353. The arches or upper curves shall be formed on strong centres of correct form, according to the sizes and shapes required, and keyed with stretchers in full joints of mortar. The extrados of the arch shall be plastered with mortar one inch thick, mixed in the proportion of one part of cement to two parts of sand. The centres shall not be removed or withdrawn in less than thirty-six hours, or until the work is thoroughly set, and until the filling in of the arch is properly put into place to a depth which is at least one foot above the crown of the arch. The centres in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centres are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Section 354. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but not less than six inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the

sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

Section 355. Spurs shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers under public parks or those crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthenware cover set in mortar.

Iron Chair Spurs.

Section 356. Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used unless otherwise ordered by the Engineer. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where the spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water mains.

Under Station Platforms.

Section 357. Wherever the sewer passes under a station platform or other structure, extra heavy soil pipe shall be laid from the spur to the outside of such station or other structure, brought up to a point thirteen feet below the established grade of the street, caulked and sealed, as provided above. All pipes passing under such structures shall be laid in concrete.

Concrete Sewers, Form, Dimensions and Materials.

Section 358. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section 359. Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Section 360. Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place.

Invert to be Protected.

Section 361. The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as he may require.

Forms, Moulds, etc.

Section 362. Suitable forms or moulds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work.

Defective Work.

Section 363. If any voids, or irregular or defective work is discovered upon removing the forms or moulds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

Section 364. No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

Section 365. In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers—Quality of Pipe.

Section 366. Pipe sewers shall be built of vitrified, salt glazed stoneware pipe, with or without hub, as the Engineer may direct. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers, at any time previous to its being used.

Thickness.

Section 367. The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, according to the following schedule:
6-inch pipes shall be not less than ⅝ of an inch thick.
8-inch pipes shall be not less than ¾ of an inch thick.
10-inch pipes shall be not less than ⅞ of an inch thick.
12-inch pipes shall be not less than 1 inch thick.
15-inch pipes shall be not less than 1¼ inches thick.
18-inch pipes shall be not less than 1½ inches thick.
24-inch pipes shall be not less than 2 inches thick.
30-inch pipes shall be not less than 2½ inches thick.

Lengths.

Section 368. No pipe shall be less than 2 feet in length, and pipes of 12 inches, 15 inches and 18 inches in diameter shall be not less than 3 feet in length.

Curved and Split Pipes.

Section 369. When required, curved pipes shall be furnished and laid, curved to such a radius as may be required or as indicated on the plan of the work. No curved pipe shall exceed 3 feet in length. Split pipes shall be used when found necessary.

Hub and Spigot Pipe.

Section 370. In case the Engineer shall order hub and spigot pipe to be used, the hub shall have a depth of at least three (3) inches from its face to the shoulder of the pipe on which it is moulded, and shall have an interior diameter not less than one (1) nor more than two (2) inches greater than the exterior diameter of the pipe which is to be fitted into it.

Straight Pipe With Collars.

Section 371. In case the Engineer shall order pipe without hubs to be used, it shall be fitted with a collar of the same thickness as the pipe and not less than five inches wide. Each collar must have an internal diameter of not less than one-half inch nor more than one and one-half inches greater than the external diameter of the pipe to which it is to be fitted.

Spur Pipes.

Section 372. Pipes having spurs not less than six inches in diameter with hubs moulded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthenware covers set in mortar.

Risers.

Section 373. The provisions for risers on brick sewers shall also apply to pipe sewers.

Bends.

Section 374. Bends, siphons and special pipes shall be furnished and laid of the size and forms shown on the plans of the work, or as required.

Pipe Sewers, How Laid.

Section 375. All pipes shall be laid in concrete cradles of the required form and dimensions. The first layer of concrete shall be four inches thick, for the full width of the cradle, and after being thoroughly tamped shall be allowed to set for a period of not less than twenty-four hours. Upon the bed thus prepared, the pipe shall be laid true according to the lines and grades furnished. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench. The remainder of the concrete shall then be put in place and shall be exposed for at least twenty-four hours for inspection, as required for the bottom course.

Jointing Hub and Spigot Pipes.

Section 376. When hub and spigot pipes are used, the lower half of each hub shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to one part of sand and of sufficient thickness to bring the inner surface of the abutting pipes flush and even with the established flow line. After the pipes are fitted, the space between the inside of the upper half of each hub and the outside of the entering pipe shall be filled with cement mortar mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped inside and outside.

Jointing Pipes Without Hubs.

Section 377. When pipe without hubs is used, a collar or ring shall be used at joints and shall lap equally the ends of each abutting pipe. Such collar or ring shall consist of not more than three pieces, the largest of which shall be placed at the bottom.

Spaces Between Pipes Uniform.

Section 378. The space between the ring and the pipes shall be as uniform as possible and shall be thoroughly filled with cement mortar mixed in the proportions specified for hub and spigot pipe. The joints shall be carefully wiped and pointed inside and outside and all mortar that may be left on the inside shall be removed and the inside of the pipe left clean and smooth throughout.

Iron Pipe Sewers.

Section 379. Sewers of iron pipe, of quality and laid in the manner described elsewhere in these specifications for the laying of water mains, shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Section 380. Wherever such pipes are laid under station platforms or through vaults, they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an airtight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Section 381. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under station platforms or other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

Section 382. All existing sewers, culverts, drains and house connections intercepted by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

Section 383. All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid,

except as may be necessary in tamping the earth and refilling, will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

Section 384. The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mould or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

Section 385. The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Section 386. The masonry of manholes shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by selected bluestone slabs eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

Section 387. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Section 388. Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

Vitrified Bricks or Granite Blocks.

Section 389. The invert shall be built of vitrified brick, granite blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section 390. A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Section 391. Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Section 392. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section 393. A cast iron manhole head and cover of the quality specified for cast iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be at once removed from the work.

Perforations.

Section 394. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting, without perforations.

Weights.

Section 395. Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds.
Street manhole cover, 135 to 150 pounds.
Sidewalk manhole head, 300 to 310 pounds.
Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

Section 396. When the pavement of the street is asphalt on wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Manhole Heads and Covers.

Section 397. All manholes in station platforms, vaults or other structures shall be provided with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section 398. Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to be Completed.

Section 399. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section 400. Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

Section 401. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

Section 402. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section 403. Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-Iron Cover.

Section 404. A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

Section 405. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-Iron Trap.

Section 406. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place as directed by the Engineer.

Joints.

Section 407. The joints shall be tightly fitted with an oakum gasket or with cement mortar if so directed.

Iron Steps.

Section 408. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section 409. The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built, with the work to be constructed, so much of such culverts as in the opinion of the Engineer may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick as the case may be, in the manner described above and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Section 410. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section 411. Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Mortar.

Section 412. All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

Section 413. All concrete for sewers shall be made in the proportions of one (1) part of cement to two and one-half (2½) parts of sand and four and one-half (4½) parts of stone of the quality described in these specifications.

Paving.

Section 414. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under the heading of "Street Surface and Park Surface Restored."

Permits for Connections.

Section 415. The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections. This is not to be construed, however, as permitting the introduction of storm water or sewerage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section 416. During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor, all at his own expense.

Payment for Sewers.

Section 417. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 37 to 74, both inclusive, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections 333 to 416 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavation.

Section 418. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section 107), on the basis of size of trench stipulated in Sections 337 and 340, excepting where the sewer is built by tunneling, in which case tunnel excavation will be paid for at the price herein stipulated in Schedule Item 5-A (which prices shall include all the matters referred to in Sections 117 and 120), on the basis of the net ordered lines of the sewer. Payment for street surface restored shall be as provided in Schedule Items 30-A or B.

Steel Beams and Reinforcing Rods.

Section 419. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21

Automatic Flush Tanks.

Section 420. Where automatic flush tanks are built as provided in Section 410 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section 421. Where waterproofing is required and placed in accordance with Section 411 of the specifications it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Siphons.

Section 422. Where inverted siphons passing under the subway structure are called for and built, they shall be considered as part of the regular subway construction from outside to outside of the sewer chambers or between points of departure from standard sewer construction, such limits being indicated on the plans; and payment for such siphons will be made in accordance with the various classes of work or material as are applicable thereto in the Schedule and at the prices therein stipulated for such items.

Cast-Iron Pipe Sewers, etc.

Section 424. All cast-iron pipe sewers wherever built, and the parts, within the limits of the Railroad, or as indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

House and Drainage Connections.

Section 425. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Sections 422 and 424 will be included in the prices for the several classes of work and material entering into such construction.

21—Requirements for Pipes.

Generally.

Section 426. Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

Section 427. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section 428. The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

Section 429. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots

to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth (⅛) of an inch, or whose dimensions differ by more than one-eighth (⅛) of an inch from those required.

Section 430. The pipes shall be designated by dimensions of the interior diameter

Section 431. Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

Section 432. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Section 433. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section 434. The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be approximately as follows:

60-inch pipes,	12,835 pounds each.
48-inch pipes,	8,270 pounds each.
42-inch pipes,	6,860 pounds each.
36-inch pipes,	5,305 pounds each.
30-inch pipes,	3,940 pounds each.
24-inch pipes,	2,660 pounds each.
20-inch pipes,	2,005 pounds each.
16-inch pipes,	1,475 pounds each.
12-inch pipes,	1,015 pounds each.
8-inch pipes,	580 pounds each.
6-inch pipes,	415 pounds each.

High Pressure Fire System.

Section 435. For high-pressure fire system standard spigots and grooves—The weights for straight pipes, with lugs, shall be approximately as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch	355	420	550	935
12-inch	615	745	1,000	1,765
16-inch	1,005	1,215	1,635	2,905
20-inch	1,475	1,795	2,425	4,320
24-inch	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Section 436. The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

Section 437. No pipe will be received when the thickness of metal is less by more than one-twelfth (1-12) of an inch than the thickness required by the standards.

Underweight.

Section 438. No straight pipe or casting will be received which weighs less than the weights above mentioned by more than five (5) per cent., for pipes 16 inches or less in diameter, or more than four (4) per cent. for pipes more than 16 inches in diameter. No special casting will be received which weighs less than the standard weight by more than ten (10) per cent. for pipes 12 inches or less in diameter, and eight (8) per cent. for larger pipes.

Straight Pipe Cast Vertically.

Section 439. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Section 440. All the castings shall be made in such molding sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

Section 441. All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and

the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth (⅛) of an inch in relief, in such manner as the Engineer may designate; and in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast Iron.

Section 442. The metal of which the castings are to be cast (which shall be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

Section 443. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings to be Clean.

Section 444. The castings shall be perfectly cleaned and no lumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes shall be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes to be Coated.

Section 445. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

Section 446. The coal-tar pitch shall be made from coal tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Section 447. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and shall be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Section 448. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit, before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To be Inspected Before Dipping.

Section 449. No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

Section 450. The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise, will be rejected. This test shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

Section 451. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the Inspector.

Blocking and Wedges.

Section 452. Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

Timber for Blocking.

Section 453. The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and ½ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and 3½ inches thick on one end and ½ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and ½ inch thick on the other.

Joints.

Section 454. The spigot end of the pipe shall be inserted into the hub to within from one-fourth (¼) to one-eighth (⅛) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and the hub shall be packed with clean, sound jute packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a watertight joint

Lead.

Section 455. The lead to be used shall be of the best quality of pure, soft lead. and in every respect suitable for the purpose.

Notice of Interruption to be Given.

Section 456. In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

Connections Interfered With.

Section 457. All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stopcocks, etc.

Section 458. Stopcocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Section 459. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

22—Street Surface and Park Surface Restored.

Pavement to be Restored.

Section 460. As soon as the structure in any excavation or trench made within a street shall be completed and the trench backfilled, a temporary pavement shall be laid and maintained in a condition satisfactory to the Engineer; and after the earth shall have become, in the opinion of the Engineer, sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as, that existing previous to the commencement of construction; except that the Contractor will not be required to permanently restore the pavement of roadways between curb lines, but shall provide a temporary roadway pavement as follows:

Temporary Roadway Pavement.

Section 461. Upon the backfill, placed and compacted as provided under the clauses relating to backfilling, shall be placed a layer of sand, about an inch and

a half in thickness, on which shall be laid a pavement of granite blocks carefully laid and rammed to the required finished grade of the street surface. The end and side joints shall be thoroughly filled with sand, and shall not exceed ¾ of an inch in thickness. The granite blocks required for this temporary pavement, if found in or under the original pavement, shall be stored at a suitable place until required for use. In case granite blocks are not found in or under the original pavement, they may be obtained by the Contractor, free of cost, from the Bureau of Highways at the corporation yards.

The Contractor shall maintain the temporary roadway pavement thus laid for a period not exceeding six months from the time of its completion in any one block or street intersection. During this period the Contractor shall, without requiring previous notice, readjust or relay any portion of the pavement wherever and whenever a straight edge 3 feet long, laid in any direction, shows a depression of more than ¾ inch.

All the requirements as to street surface restored, including temporary roadway pavements, shall apply to the trenches for sewers, pipes or other subsurface structures along or off the line of the Railroad. Within the limits of private property to be taken by the City for the extension of Irving Place, these requirements will not apply.

Other Sidewalks May be Laid.

Section 462. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such property owner, duly acknowledged in writing by both parties.

In case any property owner desires to lay a sidewalk, or other surface covering within curb lines, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor, then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the restoration as hereinbefore provided.

Payment for Street Surface Restored.

Section 463. Payment for street surface restored will be made as provided in Schedule Item 30-A or B, which prices shall include the cost of restoring all curbs, manhole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface.

Measurements.

Section 464. The measurement for payment for street surface restored will be to the net line of ordered excavation.

Outside of Net Lines.

Section 465. All other pavement outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as the result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally good as that existing previous to the commencement of construction.

Parks and Parkways.

Section 466. All parks and parkways including trees, shrubbery, etc., as elsewhere provided in this contract and the specifications, are to be restored to the satisfaction of the Department of Parks.

Measurement.

Section 467. Measurements for park surface restored are to be to the net lines of ordered excavation.

Payment For.

Section 468. Payment for park surface restored will be made at the price provided in Schedule Item 31.

Outside of Net Lines.

Section 469. Any damage done outside of the net lines of ordered excavation in connection with the construction of the work to park surfaces or growths, under the jurisdiction of the Department of Parks, shall be restored to the satisfaction of the said Department, and at the Contractor's own cost and expense.

23—VAULT LIGHTS, GRATINGS AND HAND-RAILS.

Vault Lights.

Section 470. The roofs of the stations, where under sidewalks, parks or parkways, shall, to as great an extent as possible, consist of vault light construction. These lights shall be made with lenses, not exceeding three (3) inches in diameter, of strong glass set in cement; they shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame or panel in every ten (10), as selected by the Engineer. Should the one selected fail, another will be selected by the Engineer; and if that fail, then the whole lot may be rejected. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

Section 471. The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and the price paid will be as provided in Schedule Item 29, which price shall include all material and work incidental to the completed vault lights in place.

Steel Gratings.

Section 472. Steel gratings shall be provided and placed over fan and other ventilating chambers, over stations and station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

Measurement and Payment.

Section 473. Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work.

Galvanized Iron Pipe Hand-Rails.

Section 474. Galvanized iron pipe hand-rails will be placed in the Railroad over the benches containing the ducts. They shall be securely fastened to the wall of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of hand-rail in place in the work, complete, and at the price as stipulated in Schedule Item 27.

IV.—SECURITY TO BE FURNISHED BY CONTRACTOR.

Security by Contractor. Contractor's Bond.

Article 27. Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in the form annexed hereto, entitled, "Form of Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum specified in the Invitation to Contractors for the Section embraced in this contract. In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within ten days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such ten days or such further time as the Commission may grant, to substitute another and sufficient surety, then the contractor shall, for all the purposes of this contract be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require to be deducted from any moneys then in, or thereafter coming into, the hands of the City and due to the Contractor

the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the moneys so deducted shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

V.—Payments to Contractor.

Partial Payments.

Article 28. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with the contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand dollars ($10,000). The Engineer shall further include accepted structural iron and steel delivered on the site of the work, but not incorporated in the work, at the rate of forty dollars ($40) per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory, shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, and none of the Contractor's plant shall be included in partial estimates.

Not by Strict Measurement.

Article 29. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article 30. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify a voucher for ninety per cent. of the amount stated in such estimate or certificate to be the value of the work done and materials furnished, and the City shall within thirty (30) days after the date of the certification of such voucher by the Commission pay the same; provided, however, that the City may at all times reserve and retain from said partial payments, or any of them, in addition to the ten per cent. above mentioned to be retained and reserved, any sum or all sums which by the terms hereof, or of any law of the State of New York passed prior to the date hereof, it is or may be authorized to reserve or retain.

Final Estimate.

Article 31. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part, the Engineer shall so certify, in writing, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract. On the expiration of ninety (90) days after the acceptance by the Commission of the work herein agreed to be done by the Contractor, and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller, signed by the Engineer and the Commission, the City shall pay to the Contractor the amount remaining after deducting from the amount or value stated in the last-mentioned certificate, all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract, and also any sum or all such sums of money as by the terms hereof the City is or may be authorized to reserve or retain; provided, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work, should the said certificate be found, or known to be, inconsistent with the terms of this contract, or otherwise improperly given. All prior certificates upon which partial payments may have been

made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based.

Interest in Case of Delayed Payments.

Article 32. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article 30, in the case of partial payment, or Article 31, in the case of final payment, the City shall pay the Contractor interest on such amount at the rate of four and one-half (4½) per cent. per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. The term for which interest shall be paid shall be reckoned, in the case of a partial payment from the thirtieth day after the certification of such voucher by the Commission, and in the case of a final payment from the ninetieth day after the acceptance of the work by the Commission, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller for payment in the usual manner.

No Estoppel.

Article 33. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing the true and correct amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article 34. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article 35. The acceptance by the Contractor of the last payment aforesaid shall be and shall operate as a release to the City, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the Commission, the City or of any person relating to or affecting the work, except only the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract.

Contractor's Claims for Damage. Statements of Damage to be Filed With Engineer.

Article 36. If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement of the nature of the damage sustained to the Engineer. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Lien Law.

Article 37. If at any time before or within thirty days after the whole work agreed herein to be performed and all the labor and material herein agreed to be delivered have been performed or delivered or completed and accepted by the City any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller of the City any such notice as is described in the Lien Law, the City shall retain until the discharge thereof from moneys under its control so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice.

VI.—CONTRACTOR'S LIABILITY FOR INJURIES TO PERSONS OR PROPERTY.

Contractor Approves Plans as Involving No Damage.

Article 38. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent buildings or structures or to navigation; and the Contractor will at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent buildings or structures or to navigation. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part, or on the part of his agents, servants or employees and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage. Where the work is required to be done by tunneling the same admission and covenant shall also apply to the foundations, walls and other parts of buildings and to any railroad track or structure, subway, street, conduit, pipe, sewer or other structure or surface over the tunnel. But this admission and covenant shall not apply to the foundations, walls or other parts of buildings or any part thereof acquired by the City and which the Engineer may determine should be razed.

Traffic to be Maintained.

Article 39. The Contractor shall, during the performance of the work, safely maintain the traffic on streets, avenues, highways, parks, waters or other public places as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, etc.

Article 40. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor or May be Retained to Meet Claims.

Article 41. In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property as aforesaid, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller out of any moneys thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained), as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims shall be paid from the amount so retained and the balance, if any, paid to the Contractor. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned, the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard

to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or any part thereof, for a time not exceeding the time when such claims would be barred under the existing Statute of Limitations, as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article 42. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner, or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above.

Damage to Works During Construction.

Article 43. All risk of loss or damage to the works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City by reason of such loss or damage.

VII.—CITY TO SECURE CONTRACTOR AGAINST INTERFERENCE BY INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article 44. The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances.

Claims for Infringement of Patents.

Article 45. The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Acquisition of Real Estate.

Article 46. The City will acquire all such real estate and rights of way or other rights, terms, franchises, easements and privileges therein which, in the opinion of the Commission, it shall be necessary to acquire or extinguish for the purpose of constructing the works free of interference or right of interference; provided, however, that this covenant shall not apply to or include any damages for physical injuries to property referred to in chapter 6 hereof, whether or not compensation for such damages be awarded in a condemnation proceeding. If compensation for any such damages shall be included in an award in condemnation proceedings the Contractor shall, upon demand, promptly reimburse the City for any payments made by it for such purposes.

VIII.—TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article 47. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the execution of this contract. The entire work covered by this contract shall be completed in all respects within forty-two (42) months from the date of the delivery of this contract.

Price to be Reduced for Delay.

Article 48. In the event of delay in completion of the works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor as follows: From the amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts theretofore certified to be due) there shall be deducted and retained by the City the following percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly from any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained by the City and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any subcontractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended by resolution of the Commission to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

Article 49. But no injunction, strike or interference of public authority shall be ground for such extension, except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel of the Commission or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

Article 50. The time stipulated within which to complete the works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article 51. The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor

for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Time for Completion to be Extended in Case of Delay in Acquiring Real Estate.

Article 52. In case the Contractor shall at any time give notice to the Commission that any real estate is necessary under this contract for any of the purposes specified above, which notice shall give a brief description of such real estate, the Commission shall (if it finds that such exists) begin and conduct with diligence, proceedings to acquire the real estate described; and in case the Commission shall fail to put the Contractor in possession of such real estate within three (3) months from the date of the delivery of such notice the Commission shall allow the Contractor so much additional time wherein to perform and complete this contract on his part as the Engineer shall certify in writing to be just, but no allowance by way of damages shall be made for such delay.

Extensions Not Cumulative.

Article 53. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article 54. The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City of any of its rights under this contract.

IX.—REMEDIES IN CASE OF CONTRACTOR'S DEFAULT.

Article 55. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of the contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission may

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this article of the contract. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the bond. And

Or May Bring Suit.

(3) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

X.—MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article 56. No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and by the sureties upon his bond; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission Not Liable.

Article 57. No claim shall be made by the Contractor against any member of the Commission personally by reason of this contract or of any of its articles or provisions.

Contractor Not to Assign, Sublet, Etc.

Article 58. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article 59. In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

Article 60. The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 36 of the Laws of 1909. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency, caused by fire, flood or danger to life or property; and further, that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of the City, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any subcontractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void

and of no effect, unless the Contractor shall comply with the provisions of this section. In obedience to the requirements of section 14 of the Labor Law, it is further provided that if the provisions of the said section 14 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article 61. It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted or is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

Article 62. If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect and shall, upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

In witness whereof, this contract has been executed for The City of New York by the Public Service Commission for the First District under and by resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Contractor has caused its corporate seal to be hereto affixed and these presents to be executed by its proper officers the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.
By...................., Chairman.

Attest:
...................., Secretary.

State of New York, County of New York, ss.:

On the .... day of ...., 1910, before me personally appeared William R. Willcox and Travis H. Whitney, to me known and known to me to be the said William R. Willcox, the Chairman, and the said Travis H. Whitney, the Secretary of the Public Service Commission for the First District; and the said William R. Willcox and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not the one for the other, the said William R. Willcox, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the Chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the Secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said William R. Willcox and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally came .... to me known and known to me to be the individual.. described in and who executed the foregoing instrument, and ..he.. duly acknowledged to me that ..he.. executed the same.

State of New York, County of New York, ss.:

On this .... day of ...., 1910, before me personally appeared ...., to me known, who, being by me first duly sworn, did depose and say: That he resided in ...., in the State of........; that he is .... of ...., the corporation described in and which executed the foregoing instrument; that he knew the corporate seal of said company; that one of the seals affixed to said contract was such corporate seal, and that it was affixed thereto by order of the Board of Directors of said Company, and that he signed his name thereto by like authority.

FORM OF CONTRACTOR'S BOND.

Route 5, Section No. 11.

Know All Men by These Presents, That .... of ...., hereinafter called the Contractor, and .... and ...., hereinafter called the Sureties, are

held and firmly bound unto The City of New York, hereinafter called the City, in the sum of .... dollars ($........), lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said sum of .... dollars ($........), and each of the said Sureties to be so held and bound only for a portion of said sum as follows:

The said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........); the said ....
for the sum of..........................dollars ($........).

In Witness Whereof, The Contractor and the Sureties have hereunto set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this .... day of ...., 1910.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a Rapid Transit Railroad known as Section 11 of Route 5, in.........., and extending from.......... street to .... street, in the Borough of ...., in The City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof, now therefore,

The condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed, between the City and the Sureties (and it is upon such agreement that the City accepts this bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to make any payment or do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defense upon this Bond; that the Sureties shall not set up or have any defense upon this bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

ROUTE 5, SECTION 1, BATTERY PARK TO DEY STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 1.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..

.... do..
hereby, in pursuance of the invitation to contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form

---

*The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

annexed hereto with The City of New York for the construction of section 1 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	160,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	143,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........	....	61,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	.
	(b) For buildings from seven to twelve stories in height, per front foot........	....	400	....
	(c) For buildings over twelve stories in height, per front foot..................	....	300	....
6.	For concrete masonry, in place, per cubic yard	....	70,500	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	10,300	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	770	....
12.	For timber piles, in place, and prepared, per lineal foot.......................	....	5,000	....
13.	For timber foundations, placed and fastened, per thousand feet, B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,200	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	80,000	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	4,000	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	12,200	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,430	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,800	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	238,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	5,500	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	4,400	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	660	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	10	....
26.	For wire mesh in place, per pound........	....	10,600	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	9,000	....
29.	For vault lights, in place, per square foot..	....	4,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard...................	....	7,140	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	14,520	....
31.	For park surface restored (all classes), per square yard	....	20,800	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought iron, per lineal foot..........	....	18,900	....
	(b) For one and one-half inch (1½ inch) wrought iron, per lineal foot..........	....	3,230	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) for two inch (2 inch) wrought iron, per lineal foot........................	....	1,730	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	6,600	....
33.	For cast-iron outlet boxes in place, in stations, each	....	1,030	....
34.	For six inch (6 inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot......	....	140	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,250	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	720	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch per lineal foot	....	*2,168	....
47.	For 4 foot by 2 foot 8 inch per lineal foot.	....	*452	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	5,500	....
	(b) For horse railroads, per lineal foot of single track	....	240	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column........................	....	120	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications. Water and Gas Pipes—Items* 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	760	....
82.	For 12-inch water pipe, per lineal foot....	....	730	....
84.	For 20-inch water pipe, per lineal foot....	....	680	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot........	....	280	....
91.	For 6-inch gas pipe, per lineal foot.......	....	610	....
96.	For 20-inch gas pipe, per lineal foot......	....	90	....

*Balance remaining after deducting portion of sewer included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	25	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	6	....
	Steam Pipes, Air Pipes and Mail Tubes—Items 109 *to* 126. *Steam Pipes—Items* 109 *to* 120.			
	For steam pipe, in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	30	....
113.	For 15-inch steam pipe, per lineal foot....	....	830	....
	New Steel-welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot....	....	30	....
119.	For 15-inch steam pipe, per lineal foot....	....	200	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	45,900	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room .... on the ...... floor of the building .... in the Borough of ...., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the invitation to contractors and this contractor's proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said invitation to contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be ac-

cepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District, is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am† the proposing contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2, DEY STREET TO WALKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 2.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡... .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	256,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	142,300	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	3,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard...............	....	100	....
4.	*For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	3,000	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	1,300	....
	(c) For buildings over twelve stories in height, per front foot..................	....	750	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	23,300	....
6.	For concrete masonry in place, per cubic yard	....	84,800	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	6,220	....
8.	For rubble stone masonry in place, per cubic yard	....	3,250	....
9.	For brick masonry, in place, per cubic yard.	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	2,360	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	4,000	....
12.	For timber piles, in place, and prepared, per linear foot........................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B.M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	45,500	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard............	....	5,300	....
	(d) For 4-ply, per square yard............	....	100	....
	(e) For 5-ply, per square yard............	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,300	....

*Not to include underpinning, if any, in connection with construction of iron-lined tunnel portion.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	210	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,600	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	365,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	6,700	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,850	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	1,240	....
22.	For cast-iron tunnel lining, in place in the work, including the placing of bolts and washers and caulking of joints, etc., per ton of two thousand pounds............	....	5,300	....
23.	For steel bolts and washers for tunnel lining, per ton of two thousand pounds..	....	75	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	20	....
26.	For wire mesh, in place, per pound........	....	13,620	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per linear foot	....	9,130	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,310	....
29.	For vault lights, in place, per square foot..	....	2,900	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard.....................	....	8,065	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	18,695	....
31.	For park surface restored (all classes), per square yard	....	1,300	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought-iron, per lineal foot...........	....	31,300	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot..........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two-inch (2 inch) wrought-iron, per lineal foot........................	....	830	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place in stations, each	....	1,160	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	380	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,760	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3-foot 6-inch by 2-foot 4-inch, per lineal foot	....	*185	....
47.	For 4-foot by 2-foot 8-inch, per lineal foot	....	(†95)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per linear foot of single track	....	6,750	....
	(b) For horse railroads, per linear foot of single track	....	770	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column........................	....	6	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications. Water and Gas Pipes—Items* 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
82.	For 4-inch water pipe, per lineal foot.....	....	500	....
85.	For 24-inch water pipe, per lineal foot....	....	1,200	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
94.	For 12-inch gas pipe, per lineal foot......	....	500	....
95.	For 16-inch gas pipe, per lineal foot......	....	500	....
96.	For 20-inch gas pipe, per lineal foot......	....	500	....

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	50	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.........	....	13	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot....................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot....................	....	200	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot....................	....	180	....
106.	For 24-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-Iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds.............	....	15	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	5	....
	Steam Pipes—Items 109 *to* 120.			
	For steam pipe in place, as follows:			
110.	For 8-inch steam pipe, per lineal foot....	....	500	....
	New Steel-Welded Flanged Steam Pipe Delivered on the Work, as Follows—Items 115 *to* 120.			
116.	For 8-inch steam pipe, per lineal foot.....	....	100	....
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot....................	....	31,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of six hundred thousand dollars ($600,000), in the form hereto annexed with the following named sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room ...., on the .... floor of the building ...., in the Borough

of ...., in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this proposal except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the Contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

......................., being duly sworn, says: I am†.......................
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 2-A, WALKER STREET TO HOWARD STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 2-A.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 2-A of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..................	....	28,070	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..................	....	59,370	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	100	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot...............	....	318	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	70	....
	(c) For buildings over twelve stories in height, per front foot................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	18,180	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2,625	....
8.	For rubble stone masonry in place, per cubic yard	....	500	....
9.	For brick masonry, in place, per cubic yard	....	230	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	105	....
12.	For timber piles, in place, and prepared, per lineal foot......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,070	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	20,625	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,255	....
	(d) For 4-ply, per square yard..........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	120	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	3,255	....
17.	For vitrified or cast-iron drain pipe in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	800	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	625	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	45,025	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	2,275	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	1,945	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	23	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	10	....
26.	For wire mesh, in place, per pound	....	4,100	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	900	....
29.	For vault lights, in place, per square foot.	....	2,025	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein or thereon, per square yard	....	2,442	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	2,798	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	9,640	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	520	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	260	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	578	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	770	....
	SEWERS—ITEMS 37 TO 74.			
	Egg-Shaped Brick or Concrete Sewers, Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	(†190)	....
47.	For 4 foot 0 inch by 2 foot 8 inch, per lineal foot	....	(†230)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete, Items 52 *to* 66.			
54.	For 4 foot 3 inch, per lineal foot	....	(†42)	....
55.	For 4 foot 9 inch, per lineal foot	....	(†208)	....
57.	For 5 foot 6 inch, per lineal foot	....	(†68)	....
	SURFACE AND SUBSURFACE STRUCTURES, ITEMS 75 AND 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	1,280	....
	(b) For horse railroads, per lineal foot of single track	....	100	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
82.	For 12-inch water pipe, per lineal foot	....	500	....
86.	For 30-inch water pipe, per lineal foot	....	400	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot	....	960	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	21	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds	....	6	....

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106. For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot..................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot............	....	490	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot...........	....	150	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds..........	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets. (Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	11,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of two hundred and fifty thousand dollars ($250,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No................on the................floor of the building No.........................in the Borough of..................................
in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the

said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of.............., 1910.

ROUTE 5, SECTION 3, HOWARD STREET TO BLEECKER STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 3.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 3 of Route 5. and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the............ ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	172,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	40,500	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	10,400	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	3,700	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,700	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	2,200	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	50	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,230	....
12.	For timber piles, in place, and prepared, per lineal foot.........................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	16,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	3,700	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	3,060	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	1,460	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	1,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	207,400	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	2,560	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds	....	780	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,530	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	10	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound	....	6,400	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	3,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,200	....
29.	For vault lights. in place, per square foot	....	5,000	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein or thereon, per square yard	....	9,390	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	14,240	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,600	....
	(b) For one and one-half inch (1½ inch) wrought-iron, per lineal foot	....	1,000	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	520	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	....	....
33.	For cast-iron outlet boxes in place in stations, each	....	440	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	160	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,272	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	543	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	283	....
	Egg-shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	*554	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	484	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
53.	For 4 foot 0 inch, per lineal foot..........	....	1,145	....
54.	For 4 foot 3 inch, per lineal foot..........	....	*284	....
	SURFACE AND SUBSURFACE STRUCTURES. ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	5,470	....
	(b) For horse railroads, per lineal foot of single track......................	....	720	....
	PIPES IN STREETS—ITEMS *77 to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	600	....
86.	For 30-inch water pipe, per lineal foot..	....	800	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	32	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	8	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot....................	....	100	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
103.	For 12-inch high pressure fire system water pipe, per lineal foot....................	....	410	....
105.	For 20-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	10	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	42,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate

as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 4, BLEECKER STREET TO 14TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 4.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡... .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 4 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say "the (President or other officer duly authorized) of the........ .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	181,400	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......................	....	14,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard.......................	....	9,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	25,700	....
4.	For underpinning buildings, including all incidental work and material per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	2,100	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	1,600	....
	(c) For buildings over twelve stories in height, per front foot..................	....	70	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	33,000	....
6.	For concrete masonry, in place, per cubic yard	....	46,400	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,200	....
8.	For rubble stone masonry in place, per cubic yard	....	900	....
9.	For brick masonry, in place, per cubic yard	....	1,300	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,700	....
11.	For grout of Portland cement, per barrel of Portland cement used..............	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,700	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	9,900	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	1,320	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	1,550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,330	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	4,420	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	437,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds.............	....	1,940	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds..................	....	1,750	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.........	....	1,250	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	16	....
26.	For wire mesh, in place, per pound......	....	6,030	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,140	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	6,200	....
29.	For vault lights, in place, per square foot..	....	900	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	6,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,470	....
31.	For park surface restored (all classes), per square yard	....	1,350	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot..........	....	4,500	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	570	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot.......................	....	310	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place in stations, each	....	242	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	25	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,134	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	170	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,978	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	228	....
	SURFACE AND SUBSURFACE STRUCTURES—*Items* 75 *and* 76.			
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	4,800	....
	(b) For horse railroads, per lineal foot of single track	....	150	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	530	....
82.	For 12-inch water pipe, per lineal foot	....	1,560	....
87.	For 36-inch water pipe, per lineal foot	....	2,300	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot	....	130	....
91.	For 6-inch gas pipe, per lineal foot	....	1,800	....
92.	For 8-inch gas pipe, per lineal foot	....	1,070	....
94.	For 12-inch gas pipe, per lineal foot	....	270	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	130	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	40	....
	High Pressure Fire System Pipes, Standard Spigot and Grooves—Items 102 *to* 106.			
	For high pressure fire system pipe in place, as follows:			
102.	For 8-inch high pressure fire system water pipe, per lineal foot...................	....	100	....
103.	For 12-inch high pressure fire system water pipe, per lineal foot..............	....	90	....
104.	For 16-inch high pressure fire system water pipe, per lineal foot....................	....	120	....
	New Cast-iron Spigot and Groove Pipe for High Pressure Fire System—Items 107 *and* 108.			
107.	For new cast-iron spigot and groove straight pipe delivered on the work, per ton of two thousand pounds............	....	12	....
108.	For new cast-iron spigot and groove pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	4	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	49,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City damages by it sustained by reason of such failure of

the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...................................., being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 5, 14TH STREET TO 26TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 5.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡ .... do.. hereby, in pursuance to the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 5 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quan-

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the.. Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

tities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	106,000	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	17,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	21,800	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	3,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings, less than seven stories in height, per front foot	....	400	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	75,300	....
6.	For concrete masonry, in place, per cubic yard	....	37,800	....
7.	For protective concrete masonry in place, outside of waterproofing, per cubic yard.	....	620	....
8.	For rubble stone masonry in place, per cubic yard	....	350	....
9.	For brick masonry, in place, per cubic yard.	....	3,100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	1,400	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	2,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,500	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	5,900	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	5,600	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	770	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,600	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	9,000	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	525,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	270	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	1,150	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds	....	130	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes, in place, per ton of two thousand pounds	....	15	....
26.	For wire mesh, in place, per pound	....	1,400	....
27.	For one and one-half inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,100	....
28.	For steel gratings, for ventilation, in place, including frames, etc., per square foot	....	8,300	....
29.	For vault lights, in place, per square foot.	....	5,500	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	5,950	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	14,050	....
31.	For park surface restored (all classes), per square yard	....	1,000	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾ inch) wrought iron, per lineal foot	....	15,000	....
	(b) For one and one-half inch (1½ inch) wrought-iron per lineal foot	....	450	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For two inch (2 inch) wrought-iron, per lineal foot...........................	....	230	....
	(d) For two inch (2 inch) fibre, per lineal foot	....	4,000	....
33.	For cast-iron outlet boxes in place in station, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	40	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,738	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	280	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	4	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 foot 6 inch by 2 foot 4 inch, per lineal foot	....	1,465	....
47.	For 4 foot by 2 foot 8 inch, per lineal foot	....	248	....
48.	For 4 foot 3 inch by 2 foot 10 inch, per lineal foot	....	240	....
49.	For 4 foot 6 inch by 3 foot, per lineal foot	....	242	....
50.	For 4 feet 9 inches by 3 feet 2 inches per lineal foot	....	246	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
52.	For 3 feet 9 inches, per lineal foot........	....	264	....
60.	For 6 feet 0 inch, per lineal foot........	....	1,250	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	2,300	....
	(b) For horse railroads, per lineal foot of single track	....	200	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	460	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,490	....
92.	For 8-inch gas pipe, per lineal foot......	....	720	....
94.	For 12-inch gas pipe, per lineal foot......	....	580	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	20	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	5	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot................	....	86,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:..

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No...............on the....................floor of the building No........................in the Borough of.............................. in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 6, 26TH STREET TO 40TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 6.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡..
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 6 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard....................	....	73,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	500	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	37,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......	....	116,200	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	27,000	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	340	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	30	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation (except tunneling sewers), including disposal of material, timbering, etc., per cubic yard	....	85,000	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard	....	2,810	....
6.	For concrete masonry, in place, per cubic yard	....	42,300	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	370	....
8.	For rubble stone masonry in place, per cubic yard	....	1,700	....
9.	For brick masonry, in place, per cubic yard	....	1,610	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	880	....
11.	For grout of Portland cement, per barrel of Portland cement used............	....	2,500	....
13.	For timber foundations, placed and fastened, per thousand ft. B. M........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,100	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	4,810	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	6,300	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	650	....
17.	For vitrified or cast iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	5,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,200	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	555,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	1,770	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,710	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	610	....
24.	For cast iron columns erected and painted, per ton of two thousand pounds	....	60	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	15	....
26.	For wire mesh, in place, per pound......	....	8,200	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,900	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	10,100	....
29.	For vault lights, in place, per square foot	....	6,400	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	3,170	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	19,630	....
32.	For wrought-iron or fibre electric conduits, in place in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot...........	....	12,000	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	900	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	460	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
33.	For cast-iron outlet boxes in place in stations, each	....	640	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	60	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	720	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,055	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	9	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	390	....
47.	For 4 feet 0 inch by 2 feet 8 inches, per lineal foot	....	†(60)	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
57.	For 5 feet 6 inches per lineal foot	....	1,080	....
58.	For 5 feet 6 inches in tunnel, per lineal foot	....	1,280	....
60.	For 6 feet 0 inch per lineal foot	....	1,160	....
64.	For 8 feet 0 inch per lineal foot	....	420	....
66.	For 9 feet 6 inches per lineal foot	....	1,935	....
	Sewers of Special Forms—Items 67 to 72.			
71.	For triple section, per lineal foot	....	102	....
72.	For 4 feet 0 inch wooden barrel, per lineal foot	....	336	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,800	....
	(b) For horse railroads, per lineal foot of single track	....	270	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot	....	100	....
79.	For 6-inch water pipe, per lineal foot	....	1,230	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	160	....
91.	For 6-inch gas pipe, per lineal foot.......	....	830	....
92.	For 8-inch gas pipe, per lineal foot......	....	880	....
94.	For 12-inch gas pipe, per lineal foot......	....	1,000	....
95.	For 16-inch gas pipe, per lineal foot......	....	110	....
96.	For 20-inch gas pipe, per lineal foot......	....	230	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	27	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	7	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot........	....	250	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	103,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed, with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the ...... floor of the building No. .... in the Borough of .... in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said con-

tract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated, the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

............................., being duly sworn, says: I am†..................
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this ...... day of ...., 1910.

ROUTE 5, SECTION 7, 40TH STREET TO 53D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 7.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, copy of form of contract, copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...
.... do ..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 7 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say, "the (President or other officer duly authorized) of the.......................Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	125,600	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	6,300	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	221,000	....
3a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	5,800	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	1,284	....
	(b) For buildings from seven to twelve stories in height, per front foot.........	....	145	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
5.	For tunnel excavation (except tunneling for sewers), including disposal of material, timbering, etc., per cubic yard.....	....	17,700	....
5a.	For tunnel excavation for sewers and pipes, including the disposal of material, timber, etc., per cubic yard....................	....	565	....
6.	For concrete masonry, in place, per cubic yard	....	54,200	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	1,240	....
8.	For rubble stone masonry in place, per cubic yard	....	3,200	....
9.	For brick masonry, in place, per cubic yard.	....	800	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	230	....
11.	For grout of Portland cement, per barrel of Portland cement used................	....	500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,250	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	5,535	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	10,840	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	1,020	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,500	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,570	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	609,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	4,390	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,650	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.........	....	380	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds.........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds...	....	18	....
26.	For wire mesh, in place, per pound........	....	5,900	....
27.	For one and one half inch (1½-inch.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	9,783	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot...	....	10,100	....
29.	For vault lights, in place, per square foot..	....	8,150	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	9,970	....
	(b) For temporary repavement and maintenance of roadways, per square yard...	....	15,430	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	23,100	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot..........	....	1,070	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot.......................	....	575	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	6,610	....
33.	For cast-iron outlet boxes in place in stations, each	....	994	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	440	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,887	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,044	....
47.	For 4 feet 0 inches x 2 feet 8 inches per lineal foot	....	806	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
53.	For 4 feet 0 inches per lineal foot.........	....	300	....
58.	For 5 feet 6 inches, in tunnel, per lineal foot	....	257	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	7,192	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column..........................	....	4	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot.....	....	800	....
82.	For 12-inch water pipe, per lineal foot....	....	340	....
84.	For 20-inch water pipe, per lineal foot....	....	700	....
86.	For 30-inch water pipe, per lineal foot....	....	140	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	360	....
91.	For 6-inch gas pipe, per lineal foot......	....	200	....
92.	For 8-inch gas pipe, per lineal foot......	....	540	....
94.	For 12-inch gas pipe, per lineal foot......	....	270	....
95.	For 16-inch gas pipe, per lineal foot......	....	470	....
96.	For 20-inch gas pipe, per lineal foot......	....	180	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	10	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	130	....
122.	For 8-inch air pipe, per lineal foot........	....	500	....
123.	For new 6-inch air pipe, delivered on the work, per lineal foot...................	....	30	....
124.	For new 8-inch air pipe delivered on the work, per lineal foot.................	....	100	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,900	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	10	....
	DUCTS IN STREETS			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot..................	....	106,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred and fifty thousand dollars ($350,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of.......................... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any

longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially desposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.....................................being duly sworn, says: I am†............ the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 8, 53D STREET TO 67TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 8.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 8 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons, strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say " (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A, B. C, D. etc." (giving the names of all the partners).

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	172,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	24,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	54,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard...........................	....	2,200	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot................	....	1,743	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	78,900	....
6.	For concrete masonry, in place, per cubic yard	....	45,100	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	430	....
8.	For rubble stone masonry in place, per cubic yard	....	3,750	....
9.	For brick masonry, in place, per cubic yard.	....	3,480	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...................	....	470	....
11.	For grout of Portland cement, per barrel of Portland cement used................	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	3,050	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	7,600	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	430	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	11,170	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	569,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	1,417	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	760	....
21.	For steel rods and bars built in concrete per ton of two thousand pounds	....	1,305	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound	....	1,370	....
27.	For one and one half-inch (1½ inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	12,758	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,560	....
29.	For vault lights, in place, per square foot.	....	5,600	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	8,710	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	17,190	....
32.	For wrought iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot	....	7,865	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot	....	706	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	380	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,200	....
33.	For cast-iron outlet boxes in place, in stations, each	....	494	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	90	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,596	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	1,758	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,863	....
47.	For 4 feet 0 inch by 2 feet 8 inches per lineal foot	....	342	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
59.	For 5 feet 9 inches per lineal foot........	....	268	....
60.	For 6 feet 0 inch per lineal foot........	....	260	....
63.	For 7 feet 0 inch per lineal foot........	....	870	....
65.	For 8 feet 9 inches per lineal foot........	....	520	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	7,624	....
	(b) For horse railroads, per lineal foot of single track.......................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	680	....
84.	For 20-inch water pipe, per lineal foot....	....	60	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot........	....	400	....
91.	For 6-inch gas pipe, per lineal foot....	....	800	....
92.	For 8-inch gas pipe, per lineal foot....	....	900	....
95.	For 16-inch gas pipe, per lineal foot....	....	60	....
96.	For 20-inch gas pipe, per lineal foot....	....	1,000	....
98.	For 30-inch gas pipe, per lineal foot....	....	250	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	36	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	9	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot........	....	550	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
124.	For new 8-inch air pipe, delivered on the work, per lineal foot..................	....	100	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot.................	....	121,000	....

(2) If this Proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. .... on the .... floor of the building No. .... in the Borough of .... in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the ...., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.............................., being duly sworn, says: I am† .... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this .... day of ...., 1910.

ROUTE 5, SECTION 9, 67TH STREET TO 79TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 9.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡.. .... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 9 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	101,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	18,000	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	48,400	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	500	....

---

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of ...."; if a corporation, say "the (President or other officer duly authorized) of the .... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front foot..............	....	350	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	60,900	....
6.	For concrete masonry in place, per cubic yard	....	36,360	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard..	....	900	....
8.	For rubble stone masonry in place, per cubic yard	....	4,650	....
9.	For brick, masonry, in place, per cubic yard	....	2,740	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	525	....
11.	For grout of Portland cement, per barrel of Portland cement used...............	....	2,000	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,300	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard...........	....	4,860	....
	(b) For 2-ply, per square yard...........	....	100	....
	(c) For 3-ply, per square yard...........	....	7,950	....
	(d) For 4-ply, per square yard...........	....	100	....
	(e) For 5-ply, per square yard...........	....	100	....
	(f) For 6-ply, per square yard...........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	824	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	6,490	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,540	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	491,400	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	994	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	695	....
21.	For steel rods and bars built in concrete,, per ton of two thousand pounds..	....	1,017	....
24.	For cast-iron columns erected and painted, per ton of two thousand pounds........	....	52	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	5	....
26.	For wire mesh, in place, per pound.......	....	1,300	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	10,520	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	5,580	....
29.	For vault lights, in place, per square foot	....	2,620	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard..............	....	4,790	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	15,760	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot...........	....	14,045	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	478	....
	(c) For two-inch (2-inch) wrought-iron per lineal foot	....	256	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	612	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	300	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,800	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	530	....
42.	For cast-iron sewer pipe (straight pipe), in place in the work, per ton of two thousand pounds	....	12	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot	....	1,250	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 *to* 66.			
60.	For 6 feet 0 inch per lineal foot.........	....	1,200	....
62.	For 6 feet 6 inches per lineal foot........	....	240	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports (if required and added and not including additional vaults if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	6,196	....
	(b) For horse railroads, per lineal foot of single track........................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	330	....
82.	For 12-inch water pipe, per lineal foot....	....	1,050	....
83.	For 16-inch water pipe, per lineal feet....	....	100	....
	Gas Pipes—Items 89 *to* 99			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	330	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,200	....
92.	For 8-inch gas pipe, per lineal foot......	....	280	....
94.	For 12-inch gas pipe, per lineal foot......	....	290	....
96.	For 20-inch gas pipe, per lineal foot......	....	530	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	30	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	8	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per linear foot......	....	410	....
124.	For new 8-inch air pipe, delivered on the work, per linear foot..................	....	100	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	DUCTS IN STREETS. *Electric Ducts and Conduits in Streets.* (Other than tunnel ducts and street railroad ducts, which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71-a of the specifications, per duct foot.................	....	170,000	....

(2) If this proposal is accepted, the undersigned will, within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of three hundred thousand dollars ($300,000), in the form hereto annexed, with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No.........., on the...... floor of the building No.............. in the Borough of..............., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that the Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then, if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission, to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the..........................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder If there are no such persons strike out the word "except."

Affidavit of Verification.

State of New York, City and County of New York, ss.:

...., being duly sworn, says: I am†

....

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of.................., 1910.

ROUTE 5, SECTION 10, 79TH STREET TO 93D STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad

(Route 5, Section 10.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of invitation to Contractors Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡...

....do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 10 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	44,700	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard...........................	....	2,500	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard................	....	150,100	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	700	....

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..;" if a corporation, say, "the (President or other officer duly authorized) of the....... ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D., etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	910	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	100	....
	(c) For buildings over twelve stories in height, per front foot..................	....	..	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	91,800	....
6.	For concrete masonry, in place, per cubic yard	....	49,540	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	260	....
8.	For rubble stone masonry in place, per cubic yard	....	2,300	....
9.	For brick masonry, in place, per cubic yard	....	1,940	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	65	....
11.	For grout of Portland cement, per barrel of Portland cement used...............	....	2,500	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,000	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	5,820	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	4,820	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	595	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	4,100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	..	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	10,300	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	576,300	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds.............	....	2,655	....

Item	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	2,574	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	588	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds......	....	5	....
26.	For wire mesh, in place, per pound........	....	6,970	....
27.	For one and one-half inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	14,968	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot...	....	6,070	....
29.	For vault lights, in place, per square foot...	....	234	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard....................	....	4,130	....
	(b) For temporary repavement and maintenance of roadways, per square yard....	....	8,340	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot...........	....	9,065	....
	(b) For one and one-half inch (1½-inch) wrought-iron, per lineal foot...........	....	908	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	477	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,400	....
33.	For cast-iron outlet boxes in place, in stations, each	....	466	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	75	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,985	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	25	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
44.	For 3 feet 0 inch x 2 feet 0 inch per lineal foot	....	†(80)	....
45.	For 3 feet 6 inches x 2 feet 4 inches per lineal foot	....	95	....
47.	For 4 feet 0 inch x 2 feet 8 inches per lineal foot	....	†(210)	....
51.	For 5 feet 2 inches x 3 feet 5 inches per lineal foot	....	†(70)	....

---

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Surface and Subsurface Structures—Items 75 and 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	3,900	....
	(b) For horse railroads, per lineal foot of single track	....	..	....
	Pipes in Streets—Items 77 to 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108			
	Water Pipes—Items 77 to 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot......	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	120	....
82.	For 12-inch water pipe, per lineal foot....	....	460	....
	Gas Pipes—Items 89 to 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot.......	....	200	....
91.	For 6-inch gas pipe, per lineal foot........	....	540	....
92.	For 8-inch gas pipe, per lineal foot......	....	350	....
94.	For 12-inch gas pipe, per lineal foot......	....	100	....
96.	For 20-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipes—Items 100 and 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	12	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	3	....
	Air Pipes—Items 121 to 124.			
	For air pipe in place, as follows:			
121.	For 6-inch air pipe, per lineal foot........	....	150	....
	Ducts in Streets.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot..................	....	19,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pur-

suant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..........................on the........................ floor of the building No..in the Borough of ....in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of the City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.: ...

....being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this......................day of...................., 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say "the (President or other officer duly authorized) of the...... ....Company."

ROUTE 5, SECTION 11, 93RD STREET TO 106TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 11.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†..

.... do.. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with the City of New York for the construction of Section 11 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1..	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	52,100	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	22,700	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	3,600	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard..........	....	81,300	....
3-a.	For rock excavation, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	2,300	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....

---

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(c) For buildings over twelve stories in height, per front foot................	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	82,900	....
6.	For concrete masonry, in place, per cubic yard	....	39,170	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	2.060	....
8.	For rubble stone masonry in place, per cubic yard	....	2,270	....
9.	For brick masonry, in place, per cubic yard	....	1,880	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	1,340	....
11.	For grout of Portland cement, per barrel of Portland cement used.............	....	2,500	....
12.	For timber piles, in place, and prepared, per lineal foot.......................	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M...........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	1,760	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	17,850	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	8,800	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	2,500	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,340	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	2,200	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	8,730	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	409,480	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds..........	....	1,480	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.................	....	2,480	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	300	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	7	....
26.	For wire mesh, in place, per pound......	....	6,640	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,960	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,535	....
29.	For vault lights, in place, per square foot	....	4,420	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard....................	....	5,570	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	9,470	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot...........	....	15,260	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot...........	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	587	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	250	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	1,405	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	51	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*975	....
46.	For 3 feet 9 inches by 2 feet 6 inches, per lineal foot	....	*308	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc.,			

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track........................	....	3,560	....
	(b) For horse railroads, per lineal foot of single track	....	†40	....
	Pipes in Streets—Items 77 *to* 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	580	....
82.	For 12-inch water pipe, per lineal foot....	....	660	....
88.	For 48-inch water pipe, per lineal foot....	....	170	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	100	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,260	....
92.	For 8-inch gas pipe, per lineal foot......	....	930	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			......
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	29	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	7	....
	Ducts in Streets.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot................	....	38,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of three hundred thousand dollars ($300,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be

---

†Yard supply tracks for elevated railroad.

delivered at Room No................on the..................floor of the building No......................in the Borough of................................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of ten thousand dollars ($10,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in accordance to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:
....being duly sworn, says: I am†..
the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.
Sworn to before me this..................day of....................., 1910

ROUTE 5, SECTION 12, 106TH STREET TO 118TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.
(Route 5, Section 12.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors, Copy of form of contract. Copy of form of bond.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of...;
if a corporation, say "the (President or other officer duly authorized) of the.........
....Company."

To the Public Service Commission for the First District:

1. The undersigned‡ ....

.... do..
hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 12 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	126,000	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard......................	....	93,000	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard......................	....	11,300	....
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	12,820	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot.............	....	4,680	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	42,535	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,480	....
8.	For rubble stone masonry in place, per cubic yard	....	874	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...............	....	1,212	....

---

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M..........	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	3,450	....
15.	For waterproofing treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	37,870	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	5,300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic in place, per cubic yard........	....	6,053	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	2,634	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	685	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	2,225	....
18.	For tunnel ducts, in place as required by Section 305 of the specifications, per duct foot	....	319,490	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds..........	....	754	....
20.	For steel beams and shapes with connections painted and erected, per ton of two thousand pounds..................	....	4,163	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds......	....	95	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound......	....	12,760	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,320	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	8,440	....
29.	For vault lights, in place, per square foot	....	8,900	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard	....	8,230	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	17,330	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	12,455	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	373	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	187	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	2,160	....
33.	For cast-iron outlet boxes in place in stations, each	....	720	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	275	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-iron Pipe—Items 37 to 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	2,418	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	830	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	568	....
43.	For cast-iron sewer pipe (special casting) in place in the work, per ton of two thousand pounds	....	130	....
	Egg-shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	1,296	....
	Additional Sewer Construction—Items 73 and 74.			
73.	For six (6) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,000 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	....
74.	For eight (8) inch centrifugal pump and motor and appurtenances in place complete, capacity 1,800 gallons per minute against 20-foot head, power 550 volts D. C.	....	1	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required			

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder Amount.
	and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track..........................	....	6,585	....
	(b) For horse railroads, per lineal foot of single track	....	310	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108. *Water Pipes—Items 77 to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	440	....
82.	For 12-inch water pipe, per lineal foot....	....	1,480	....
84.	For 20-inch water pipe, per lineal foot....	....	190	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
90.	For 4-inch gas pipe, per lineal foot......	....	830	....
91.	For 6-inch gas pipe, per lineal foot......	....	1,530	....
92.	For 8-inch gas pipe, per lineal foot......	....	550	....
95.	For 16-inch gas pipe, per lineal foot......	....	130	....
96.	For 20-inch gas pipe, per lineal foot....	....	190	....
97.	For 24-inch gas pipe, per lineal foot......	....	100	....
99.	For 36-inch gas pipe, per lineal foot......	....	130	....
	New Cast-iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	40	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds......	....	10	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a).			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot................	....	83,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....
....
....
....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No..................on the...............floor in the building No.....................in the Borough of.........................in the City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of the contract, or in the supplies, work or business to which it relates. or in any portion of the profits thereof.

Dated the.., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡... the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..................day of........................, 1910.

ROUTE 5, SECTION 13, 118TH STREET TO 129TH STREET.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 13.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned†...
.... do..

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of..."; if a corporation, say "the (President or other officer duly authorized) of the.......... ....Company."

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 13 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	79,320	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	51,360	....
2-a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	2,400	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	207,460	....
3-a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	260	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	3,300	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	95	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	50,215	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard.	....	3,570	....
8.	For rubble stone masonry in place, per cubic yard	....	1,200	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	450	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	2,800	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	27,360	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	3,190	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	590	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard........	....	4,660	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	1,102	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	3,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	200	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	6,790	....
18.	For tunnel ducts, in place, as required by Section 305 of the specifications, per duct foot	....	291,770	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds........	....	5,585	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,905	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds.......	....	90	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound......	....	21,320	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	6,260	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	5,220	....
29.	For vault lights, in place, per square foot	....	3,960	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	8,940	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	14,730	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths inch (¾-inch) wrought-iron, per lineal foot..........	....	4,770	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot..........	....	820	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	410	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes in place in stations, each	....	480	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place in stations, per lineal foot	....	245	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*514	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	*270	....
42.	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds	....	10	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*677	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track	....	5,980	....
	(b) For horse railroads, per lineal foot of single track......................	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108. *Water Pipes—Items* 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot....	....	100	....
79.	For 6-inch water pipe, per lineal foot....	....	1,670	....
82.	For 12-inch water pipe, per lineal foot....	....	1,420	....
84.	For 20-inch water pipe, per lineal foot....	....	120	....
87.	For 36-inch water pipe, per lineal foot....	....	120	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction and under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes in place, as follows:			
89.	For 3-inch gas pipe, per lineal foot......	....	170	....
90.	For 4-inch gas pipe, per lineal foot......	....	860	....
91.	For 6-inch gas pipe, per lineal foot......	....	3,430	....
92	For 8-inch gas pipe, per lineal foot......	....	2,370	....
93.	For 10-inch gas pipe, per lineal foot......	....	230	....
94.	For 12-inch gas pipe, per lineal foot......	....	120	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds	....	53	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds........	....	13	....
	Air Pipes—Items 121 *to* 124.			
	For air pipe in place, as follows:			
122.	For 8-inch air pipe, per lineal foot......	....	210	....
	Mail Tubes—Items 125 *and* 126.			
125.	For 8-inch mail tube in place, per lineal foot	....	1,200	....
126.	For new 8-inch mail tube, delivered on the work, per ton of two thousand pounds..	....	6	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot	....	63,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of four hundred thousand dollars ($400,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No......., on the........floor of the building No............, in the Borough of..........., in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of twelve thousand five hundred dollars ($12,500). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within

such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the................................, 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†.................. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this..........day of.........., 1910.

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE H.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 14.)

Notice.—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of Form of Contract. Copy of Form of Bond.

To the Public Service Commission for the First District:

1. The undersigned‡ ....
.... do .. hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "H" and to

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.................................."; if a corporation, say "the (President or other officer duly authorized) of the.......................... Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co.. composed of A., B. C. D. etc." (giving the names of all partners).

furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
*35.	For tube tunnel under Harlem River as per type "H", per lineal foot of four-track tube complete	....	1,110	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.........................	....	47,970	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	156,650	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........	....	24,480	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	850	....
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot..................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	38,600	....
7.	For protective concrete masonry in place outside of waterproofing, per cubic yard	....	5,140	....
8.	For rubble stone masonry in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard...............	....	100	....
†12.	For timber piles, in place, and prepared, per lineal foot	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand ft B. M........	....	2M	....

---

*See note under Item 12 of Approaches.

†The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications...

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	44,830	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	310	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard.........	....	7,380	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	179,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds............	....	6,200	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	690	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	12	....
26.	For wire mesh, in place, per pound......	....	16,340	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,330	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface, restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard................	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard..	....	7,095	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast Iron Pipe—Items 37 *to* 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 *to* 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches per lineal foot............................	....	‡50	....
47.	For 4 feet 2 inches by 2 feet 8 inches per lineal foot	....	†(60)	....
	Sewers of Special Forms—Items 67 *to* 72.			
70.	For 7 feet by 12 feet per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track......................	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 *of the Specifications.*			
	Water and Gas Pipes—Items 77 *to* 108.			
	Water Pipes—Items 77 *to* 88.			
	For water pipes in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot.....	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits in place, as provided in section 71a of the specifications, per duct foot................	....	2,000	....

‡Balance remaining after deducting portions of sewer included in railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the...........floor of the building No...........in the Borough of..................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................, 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am‡..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this...........day of................, 1910.

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

‡If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of....................................."; if a corporation, say, "the (President or other officer duly authorized) of the...Company."

ROUTE 5, SECTION 14, 129TH STREET TO MOTT AVENUE, TYPE K.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 14.)

Notice—Sums of money must be written in words and also in figures, except in schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned* ....

do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 14 of Route 5, in accordance with the type of tunnel construction designated "K," and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Type K—Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	TUNNEL TUBES.			
†36.	For tube tunnel under Harlem River as per type "K," per lineal foot of four-track tube complete	....	1,080	....
	APPROACHES.			
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	49,510	....
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	156,100	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard........................	....	1,565	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard.......	....	27,620	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot..................	....	850	....

---

*The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A. B. & Co., composed of A. B. C. D. etc." (giving the names of all the partners).

†See note under Item 12 of Approaches

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For buildings from seven to twelve stories in height, per front foot........	....	....	....
	(c) For buildings over twelve stories in height, per front foot.................	....	....	....
6.	For concrete masonry, in place, per cubic yard	....	39,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,130	....
8.	For rubble stone masonry, in place, per cubic yard	....	1,370	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard..................	....	100	....
‡12.	For timber piles, in place, and prepared, per lineal foot........................	....	10,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M........	....	2M	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard..........	....	45,000	....
	(b) For 2-ply, per square yard..........	....	100	....
	(c) For 3-ply, per square yard..........	....	300	....
	(d) For 4-ply, per square yard..........	....	100	....
	(e) For 5-ply, per square yard..........	....	100	....
	(f) For 6-ply, per square yard..........	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard..........	....	7,420	....
17.	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	100	....
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	100	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	100	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	100	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	180,420	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds...........	....	6,620	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	580	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds........	....	550	....

‡The price bid for Item 12 to apply also to any piles ordered under section 127 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
25.	For miscellaneous iron castings other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds..	....	12	....
26.	For wire mesh, in place, per pound.......	....	17.380	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	5,460	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot..	....	1,560	....
29.	For vault lights, in place, per square foot..	....	100	....
30.	For street surface restored:			
	(a) Sidewalks including curbs and all structures and growths therein and thereon, per square yard...............	....	3,500	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	7,355	....
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	290	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	*50	....
47.	For 4 feet 2 inches by 2 feet 8 inches, per lineal foot	....	†(60)	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot......	....	†(985)	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track...........................	....	1,550	....
	(b) For horse railroads, per lineal foot of single track	....	....	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called for by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....
79.	For 6-inch water pipe, per lineal foot......	....	100	....
82.	For 12-inch water pipe, per lineal foot....	....	100	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of 2,000 pounds	....	1	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75a.)			
127.	For electric ducts and conduits in place, as provided in Section 71a of the specifications, per duct foot....................	....	2,000	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of the said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room.........on the...........floor of the building.................in the Borough of..................in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the............................, 1910.

Affidavit of Verification

State of New York, City and County of New York, ss.:

.... being duly sworn, says: I am†..

the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of................, 1910.

ROUTE 5, SECTION 15, MOTT AVENUE TO 157TH STREET AND TO ALEXANDER AVENUE.

Contractor's Proposal for the Construction of a Portion of a Rapid Transit Railroad.

(Route 5, Section 15.)

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto: Copy of Invitation to Contractors. Copy of form of contract. Copy of form of bond.

To the Public Service Commission for the First District:

1. The undersigned‡..

do... hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York for the construction of Section 15 of Route 5, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids, and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final, and shall form no basis for any claim in case they do not correspond with the final measurements or quantities. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
1.	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard........................	....	106,630	....

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, a member of the firm of.."; if a corporation, say, "the (President or other officer duly authorized) of the.................. ....Company."

‡The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If the bid is submitted by a firm, the above blank must be filled up in the following form, "the firm of A., B. & Co., composed of A., B. C. D. etc." (giving the names of all the partners).

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
2.	For earth excavation, below mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	71,900	....
2a.	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yard	....	16,900	....
3.	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yard	....	265,000	....
3a.	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yard	....	900	....
4.	For underpinning buildings, including all incidental work and material, per lineal front foot of building underpinned as follows:			
	(a) For buildings less than seven stories in height, per front foot	....	1,200	....
	(b) For buildings from seven to twelve stories in height, per front foot	....	....	....
	(c) For buildings over twelve stories in height, per front foot	....	....	....
5.	For tunnel excavation, including disposal of material, timbering, etc., per cubic yard	....	10,460	....
6.	For concrete masonry, in place, per cubic yard	....	78,000	....
7.	For protective concrete masonry, in place, outside of waterproofing, per cubic yard	....	5,060	....
8.	For rubble stone masonry, in place, per cubic yard	....	360	....
9.	For brick masonry, in place, per cubic yard	....	100	....
10.	For hollow terra cotta brick masonry, in place, per cubic yard	....	3,200	....
11.	For grout of Portland cement, per barrel of Portland cement used	....	500	....
12.	For timber piles, in place, and prepared, per lineal foot	....	1,000	....
13.	For timber foundations, placed and fastened, per thousand feet B. M.	....	2M	....
14.	For broken stone or gravel, in place, other than that used in concrete, per cubic yard	....	5,400	....
15.	For waterproofing, treated woven fabric, laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yard	....	37,400	....
	(b) For 2-ply, per square yard	....	100	....
	(c) For 3-ply, per square yard	....	8,150	....
	(d) For 4-ply, per square yard	....	100	....
	(e) For 5-ply, per square yard	....	100	....
	(f) For 6-ply, per square yard	....	100	....
16.	For waterproofing, brick laid in asphalt mastic, in place, per cubic yard	....	6,100	....
17.	For vitrified or cast-iron drain pipes, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal foot	....	210	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	(b) For 10-inch vitrified pipe, per lineal foot	....	100	....
	(c) For 8-inch vitrified pipe, per lineal foot	....	7,060	....
	(d) For 6-inch vitrified pipe, per lineal foot	....	100	....
	(e) For 4-inch vitrified pipe, per lineal foot	....	100	....
	(f) For 8-inch cast-iron pipe, per lineal foot	....	....	....
	(g) For 6-inch cast-iron pipe, per lineal foot	....	100	....
	(h) For 4-inch cast-iron pipe, per lineal foot	....	12,400	....
18.	For tunnel ducts, in place, as required by section 305 of the specifications, per duct foot	....	508,000	....
19.	For riveted steel, painted and erected, per ton of two thousand pounds	....	5,060	....
20.	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds	....	3,130	....
21.	For steel rods and bars built in concrete, per ton of two thousand pounds	....	2,050	....
25.	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes; in place, per ton of two thousand pounds	....	32	....
26.	For wire mesh, in place, per pound	....	25,660	....
27.	For one and one-half-inch (1½-inch) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal foot	....	11,440	....
28.	For steel gratings for ventilation, in place, including frames, etc., per square foot	....	8,130	....
29.	For vault lights, in place, per square foot	....	8,700	....
30.	For street surface restored:			
	(a) Sidewalks, including curbs and all structures and growths therein and thereon, per square yard	....	11,800	....
	(b) For temporary repavement and maintenance of roadways, per square yard	....	28,800	....
31.	For park surface restored (all classes), per square yard	....	3,180	....
32.	For wrought-iron or fibre electric conduits, in place, in stations, as follows:			
	(a) For three-fourths-inch (¾-inch) wrought-iron, per lineal foot	....	25,000	....
	(b) For one and one-half-inch (1½-inch) wrought-iron, per lineal foot	....	650	....
	(c) For two-inch (2-inch) wrought-iron, per lineal foot	....	325	....
	(d) For two-inch (2-inch) fibre, per lineal foot	....	4,320	....
33.	For cast-iron outlet boxes, in place, in stations, each	....	820	....
34.	For six-inch (6-inch) cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, per lineal foot	....	200	....

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
	SEWERS—ITEMS 37 TO 74.			
	Vitrified and Cast-Iron Pipe—Items 37 to 43.			
37.	For 12-inch vitrified pipe sewer, per lineal foot	....	2,900	....
38.	For 15-inch vitrified pipe sewer, per lineal foot	....	*2,564	....
39.	For 18-inch vitrified pipe sewer, per lineal foot	....	†(1,132)	....
40.	For 20-inch vitrified pipe sewer, per lineal foot	....	†400	....
41.	For 24-inch vitrified pipe sewer, per lineal foot	....	*102	....
42.	For cast-iron sewer pipe (straight pipe), in place, in the work, per ton of two thousand pounds	....	30	....
	Egg-Shaped Brick or Concrete Sewers—Items 44 to 51.			
45.	For 3 feet 6 inches by 2 feet 4 inches, per lineal foot	....	960	....
	Circular Sewers—Brick or Concrete or Reinforced Concrete—Items 52 to 66.			
56.	For 5 feet, per lineal foot................	....	430	....
	Sewers of Special Forms—Items 67 to 72.			
70.	For 7 feet by 12 feet, per lineal foot......	....	320	....
	SURFACE AND SUBSURFACE STRUCTURES—ITEMS 75 AND 76.			
75.	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed in excess of the number existing), as follows:			
	(a) For electric railroads, per lineal foot of single track.......................	....	4,730	....
	(b) For horse railroads, per lineal foot of single track	....	....	....
76.	For the temporary and permanent support and maintenance of elevated railroad structures, and all work incidental thereto, per column....................	....	8	....
	PIPES IN STREETS—ITEMS 77 TO 126.			
	For Work and Material as Called For by Section 71 of the Specifications.			
	Water and Gas Pipes—Items 77 to 108.			
	Water Pipes—Items 77 to 88.			
	For water pipes, in place, as follows:			
78.	For 4-inch water pipe, per lineal foot.....	....	100	....

---

*Balance remaining after deducting portion of sewer included in Railroad construction under section 424 of the specifications.

†Included in Railroad construction under section 424 of the specifications.

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This Column not to be Used by Bidder. Amount.
79.	For 6-inch water pipe, per lineal foot.....	....	1,550	....
82.	For 12-inch water pipe, per lineal foot....	....	1,350	....
	Gas Pipes—Items 89 *to* 99.			
	For gas pipes, in place, as follows:			
91.	For 6-inch gas pipe, per lineal foot.......	....	210	....
92.	For 8-inch gas pipe, per lineal foot.......	....	1,300	....
94.	For 12-inch gas pipe, per lineal foot......	....	180	....
95.	For 16-inch gas pipe, per lineal foot......	....	540	....
96.	For 20-inch gas pipe, per lineal foot......	....	540	....
97.	For 24-inch gas pipe, per lineal foot......	....	760	....
	New Cast-Iron Hub and Spigot Water and Gas Pipe—Items 100 *and* 101.			
100.	For new cast-iron hub and spigot straight pipe delivered on the work, per ton of two thousand pounds..................	....	60	....
101.	For new cast-iron hub and spigot pipe, special castings, delivered on the work, per ton of two thousand pounds.......	....	15	....
	DUCTS IN STREETS.			
	Electric Ducts and Conduits in Streets.			
	(Other than tunnel ducts and street railroad ducts which are provided for in Items 18 and 75-a.)			
127.	For electric ducts and conduits, in place, as provided in section 71a of the specifications, per duct foot..................	....	1,600	....

(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with the City in the form aforesaid, and at the same time will deliver to the Comptroller of The City of New York, pursuant to the terms of said contract, a bond in the sum of five hundred thousand dollars ($500,000) in the form hereto annexed with the following named Sureties, viz.:

....

....

....

....

(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No........, on the........floor of the building No.............in the Borough of................, in The City of New York. Such delivery shall be sufficient notice to the undersigned.

(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars ($15,000). If the Commission shall notify the undersigned that this Contractor's Proposal is accepted, and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered, then the amount of the said check so specially deposited shall be returned to the undersigned.

(5) A notice of acceptance of this proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.

(6) There are no persons interested with the undersigned in this Proposal, except*

(7) This proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of department, chief of bureau, deputy thereof or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.

Dated the.............................., 1910.

Affidavit of Verification.

State of New York, City and County of New York, ss.:

....being duly sworn, says: I am†.. the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true.

Sworn to before me this............day of............, 1910.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 21, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Under date of July 5, 1911, the Public Service Commission of the First District transmitted to the Board of Estimate and Apportionment five proposed contracts for the construction of Sections 6, 7, 8, 10 and 11 of Route 5, the so-called Lexington Avenue Rapid Transit Railroad route. Attached to each of the proposed contracts was a communication, duly signed, sealed and attested, requesting the Board of Estimate and Apportionment to consent to the contract therewith transmitted, to prescribe a limit to the amount of bonds available to meet the requirements of the contract and, also, to direct the Comptroller to issue the bonds to the amount named.

At the meeting of this Board held July 6, 1911, the five communications of the Public Service Commission and the five proposed contracts were referred to me for consideration and report. I report thereon as follows:

The sections to be built under the proposed contracts with the names of the contractors and the amount of bonds requested for each section are as follows:

Section 6—From E. 26th st. under Lexington ave. to E. 40th st. Contractor: The Bradley Contracting Company. Amount, $3,634,213.50.

Section 7—From E. 40th st. under Lexington ave. to E. 53d st. Contractor: Charles H. Peckworth. Amount, $2,750,463.40.

Section 8—From E. 53d st. under Lexington ave. to E. 67th st. Contractor: The Bradley Contracting Company. Amount, $3,369,484.20.

Section 10—From E. 79th st. under Lexington ave. to E. 93d st. Contractor: The Bradley Contracting Company. Amount, $3,253,072.80.

Section 11—From E. 93d st. under Lexington ave. to E. 106th st. Contractor: The Bradley Contracting Company. Amount, $3,132,195.05.

The aggregate amount of the five contracts is $16,139,428.95.

I find that there are three main questions to be considered as follows:

1. Will the reduction in size of the subway tunnel since bids were received give the contractors basis for action for prospective profit on work they bid to do, but which, now, they cannot do because of the reduced quantities of materials to be handled?

2. Will the reduced size of the tunnel and the proposed change of grade make a substantial difference in the actual unit cost for the work?

---

*Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

†If the bidder is an individual, do not fill this blank; if the bidder is a firm, here say, "a member of the firm of.."; if a corporation, say, "the (President or other officer duly authorized) of the...Company."

3. Should the Board of Estimate and Apportionment permit the contract price to contain a provision for indemnifying the contractors against loss under the Wainwright Workmen's Compensation Law, now that that law has been declared unconstitutional and is no longer in force?

Question 1 presents a serious aspect in view of the experience we have had with claims made by contractors on the existing subways.

The bids on which it is now proposed to award contracts were submitted for a larger and more costly subway than is to be built. The cross section of the subway has been reduced about two feet. Inasmuch as the bids were based on unit prices, it was considered unnecessary to readvertise the contracts on account of the reduction in size.

Article 13 of the Contracts states that the quantities of the various classes of work to be done and the materials to be furnished under the contract are approximate and that the contractor shall make no claim for anticipated profit or loss of profit because of a difference between the quantities of the various classes of work actually done or materials actually delivered and the estimated quantities stated in the Contractor's Proposal.

In other articles the Commission reserves the right to amplify the plans during the progress of the work, and to change the location and to alter the drawings in any way it may deem necessary.

So far as minor changes in the plans and specifications are concerned, these articles would probably give the City sufficient protection against unjust claims by the contractors, but it is doubtful if the contracts as they stand can guard against law suits for anticipated profits on work the contractors bid to do and materials they proposed to furnish, but which have been eliminated by the reduction in size of the subway.

I have conferred with representatives of the Public Service Commission and have found that, in their opinion, it will be possible to obtain waivers from the contractors which will guarantee the City against litigation on account of the change that has been made in size of the tunnel bore and the consequent reduction in quantities. The resolutions attached to this report make provision for this waiver as a condition that must precede the delivery of the contracts.

Question 2, which involves the probable difference in the unit cost of the reduced quantities and the quantities as proposed at the time bids were received, leads into many difficulties. It is conceded that the reduction in the size of the bore and the substantial raising of the grade in some sections of the Lexington avenue route will decrease the unit cost. In certain of the sections it is likely that there will be a marked reduction in unit cost as a result of these changes.

The engineers of the Public Service Commission state that the reduction in cross section of the portions to be built under the five contracts under consideration can hardly be expected to make any appreciable difference in unit cost. They believe it will be more economical to award the contracts on the bids received last October than to take a chance on readvertising.

It is stated that probably all of the remaining ten sections of the Lexington avenue route will be readvertised, largely because of changes made necessary by the entrance of the Brooklyn Rapid Transit Company into the situation since bids were opened. Some of these changes are material and the members of the Commission do not feel that it would be safe to make them without readvertising. By readvertising, the City will get the benefit of any reduction in unit prices which may result from reduced hazard of deep trench work, the reduced cost of underpinning buildings and other easier conditions due to the raising of grade and to a smaller bore.

I am convinced that it will be to the best interests of the City to let the contracts for Sections 6, 7, 8, 10 and 11, on the bid prices rather than readvertise. Readvertising might bring slightly reduced unit prices, but the delay and cost of readvertising would probably more than offset any gain.

As for Question 3, regarding the effect of the annulment of the Wainwright Compensation Law, I believe that the bid prices on these contracts contained ample provision to guarantee the contractors against any loss on account of injuries to workmen. In fact, I am informed that several of the bidders last fall were considerably excited over this question and were determined to make their bids sufficiently large to cover an indemnity.

The Wainwright Law was in force at the time bids were opened. Its constitutionality had not been attacked seriously at that time. The law compelled an employer to pay an injured employee half his weekly wages (not to exceed $10 per week) while incapacitated for work for a period not over eight years. Necessarily the contractors who bid on subway work had to make provision for the great risk they assumed under this law. They were able closely to approximate the amount of risk by taking the new special rates devised by the liability companies to meet the operation of the Compensation Law. These rates were equivalent to five per cent. of the payroll cost.

It is to be assumed that all bidders padded their bids sufficiently to provide for this five per cent. addition to payroll cost. At the same time they made provision for the larger risk put upon them by the Philips Employers' Liability Law. The latter law is still in force, but the Court of Appeals has declared the Wainwright Law unconstitutional.

As a result of the court's decision, there is no risk to be assumed by the contractors on account of the Wainwright Law, and the amounts added to their bids to indemnify them on this account must be clear profit to them. An estimate based on past experience shows that the payroll cost on the five sections of the subway now being considered should be about forty per cent. of the total cost, or about $6,400,000. Assuming that the contractors provided for five per cent. of this amount as an indemnity under the Compensation Law, their bids on the five sections included more than $300,000 as an insurance against a loss, which, under the court's decision, they cannot suffer.

By readvertising the contracts, the bids might be reduced by the amounts originally included on account of the Compensation Law. The apparent saving to the City would be substantial, but the City would be taking some risk and would suffer from the delay.

It should also be borne in mind that efforts are even now under way to re-enact a Compensation Law, designed to have the same effect as the Wainwright Compensation Law and still not conflict with the Constitution. It is possible that before work on these contracts is well under way the contractors may be again burdened with the risks imposed by a Compensation Law.

I believe that early digging is more important than a small saving. If contracts for all of the fifteen sections were about to be awarded on the bids of last October, it would be a different matter and we might well consider the advisability of readvertising to eliminate the unnecessary burden of insurance against a hazard that no longer exists. In my opinion, the saving on this one item would not justify the delay incident to readvertising the five sections in question.

A fourth question that at first seemed important was whether or not the contractor should be given the advantage of a substantial drop in prices of materials used in subway construction since the bids were made last year. The bids were opened October 27, 1910. At that time the prices listed as current were higher than the present listed prices for the same materials. However, it is doubtful if this decrease in price will influence the cost to any appreciable extent, as it would not take long for a slightly rising market to wipe out the apparent saving to the contractor. Therefore, I believe that this question deserves very little consideration.

I recommend that the Board of Estimate and Apportionment consent to the five contracts and that it authorize corporate stock to the amount of $16,139,428.95 to meet the requirements of the contracts.

Attached hereto are five resolutions which prescribe a limit to the amount of bonds available for the contracts, authorize the necessary corporate stock and give the consent of this Board conditional upon a waiver from each contractor to guarantee the City against lawsuits on account of prospective profits on quantities eliminated by the reduction of the cross section of the subway. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission July 5, 1911, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between the Bradley Contracting Company and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction, in the Borough of Manhattan, of section 6 of route 5, known as the Lexington Avenue Route, being a four-track underground railroad, the centre line of which shall begin at a point about 140 feet north of the centre line of 26th street, and shall extend thence northerly under Lexington avenue to the centre line of 40th street, at a cost not to exceed three million six hundred and thirty-four thousand two hundred and thirteen and fifty one-hundredths dollars ($3,634,213.50); and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of the proceeds of corporate stock available for the said purposes shall be three million six hundred and thirty-four thousand two hundred and thirteen and fifty one-hundredths dollars ($3,634,213.50) ; and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue corporate stock of The City of New York to the amount of three million six hundred and thirty-four thousand two hundred and thirteen and fifty one-hundredths dollars ($3,634,213.50) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be issued for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board dated July 5, 1911; provided, however, that this resolution is adopted upon the understanding that before the delivery of the contract the Public Service Commission will obtain, in proper form, a consent by the said contractor to the reduction of the size of the cross section and waiver of all claims whether for prospective profits or otherwise therefor; said consent and waiver, however, not to affect the right of the City, acting by the said Commission, to make such further changes as it may deem necessary under the provisions of the contract in respect of changes in plans.

Which was adopted by the following vote:

Affirmative—The Acting Mayor, the Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn and Richmond—12.

Negative—The Presidents of the Boroughs of Manhattan, The Bronx and **Queens—4.**

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission July 5, 1911, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between Charles H. Peckworth and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction, in the Borough of Manhattan, of section 7 of route 5, known as the Lexington Avenue Route, being a four-track underground railroad, beginning at a point at the centre line of 40th street and extending thence under Lexington avenue to a point about fifty feet north of the centre line of 53d street, at a cost not to exceed two million seven hundred and fifty thousand four hundred and sixty-three and forty one-hundredths dollars ($2,750,463.40) ; and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of the proceeds of corporate stock available for the said purposes shall be two million seven hundred and fifty thousand four hundred and sixty-three and forty one-hundredths dollars ($2,750,463.40) ; and, be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue corporate stock of The City of New York to the amount of two million seven hundred and fifty thousand four hundred and sixty-three and forty one-hundredths dollars ($2,750,463.40) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be issued for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board dated July 5, 1911; provided, however, that this resolution is adopted upon the understanding that before the delivery of the contract the Public Service Commission will obtain, in proper form, a consent by the said contractor to the reduction in the size of the cross section and waiver of all claims whether for prospective profits or otherwise therefor; said consent and waiver, however, not to affect the right of the City, acting by the said Commission, to make such further changes as it may deem necessary under the provisions of the contract in respect of changes in plans.

Which was adopted by the following vote:

Affirmative—The Acting Mayor, the Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission July 5, 1911, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between the Bradley Contracting Company and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction, in the Borough of Manhattan, of section 8 of route 5, known as the Lexington Avenue Route, being a four-track underground railroad, the centre line of which shall begin at a point fifty feet north of the centre line of 53d street, and extending thence under Lexington avenue to a point about fifty feet north of the centre line of 67th street, at a cost not to exceed three million three hundred and sixty-nine thousand four hundred and eighty-four and twenty one-hundredths dollars ($3,369,484.20); and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of the proceeds of corporate stock available for the said purposes shall be three million three hundred and sixty-nine thousand four hundred and eighty-four and twenty one-hundredths dollars ($3,369,484.20); and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue corporate stock of The City of New York to the amount of three million three hundred and sixty-nine thousand four hundred and eighty-four and twenty one-hundredths dollars ($3,369,484.20) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be issued for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board dated July 5, 1911; provided, however, that this resolution is adopted upon the understanding that before the delivery of the contract the Public Service Commission will obtain, in proper form, a consent by the said contractor to the reduction in the size of the cross section and waiver of all claims whether for prospective profits or otherwise therefor; said consent and waiver, however, not to affect the right of the City, acting by the said Commission, to make such further changes as it may deem necessary under the provisions of the contract in respect of changes in plans.

Which was adopted by the following vote:

Affirmative—The Acting Mayor, the Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission July 5, 1911, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between the Bradley Contracting Company and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction, in the Borough of Manhattan, of section 10 of route 5, known as the Lexington Avenue Route, being a four-track underground railroad, beginning at a point about seventy feet south of the centre line of 79th street and extending thence under Lexington avenue to a point about fifty feet south of the centre line of 93d street, at a cost not to exceed three million two hundred and fifty-three thousand and seventy-two and eighty one-hundredths dollars ($3,253,072.80); and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of the proceeds of corporate stock available for the said purposes shall be three million two hundred and fifty-three thousand and seventy-two and eighty one-hundredths dollars ($3,253,072.80); and, be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue corporate stock of The City of New York to the amount of three million two hundred and fifty-three thousand and seventy-two and eighty one-hundredths dollars ($3,253,072.80) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be issued for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board dated July 5, 1911; provided, however, that this resolution is adopted upon the understanding that before the delivery of the contract the Public Service Commission will obtain, in proper form, a consent by the said contractor to the reduction in the size of the cross section and waiver of all claims whether for prospective profits or otherwise therefor; said consent and waiver, however, not to affect the right of the City, acting by the said Commission, to make such further changes as it may deem necessary under the provisions of the contract in respect of changes in plans.

Which was adopted by the following vote:

Affirmative—The Acting Mayor, the Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission July 5, 1911, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between the Bradley Contracting Company and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction, in the Borough of Manhattan, of section 11 of route 5, known as the Lexington Avenue Route, being a four-track underground railroad, beginning at a point about fifty feet south of the centre line of 93d street and extending thence under Lexington avenue to a point about seventy feet south of the centre line of 106th street, at a cost not to exceed three million one hundred and thirty-two thousand one hundred and ninety-five and five one-hundredths dollars ($3,132,195.05); and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of the proceeds of corporate stock available for the said purposes shall be three million one hundred and thirty-two thousand one hundred and ninety-five and five one-hundredths dollars ($3,132,195.05); and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue corporate stock of The City of New York to the amount of three million one hundred and thirty-two thousand one hundred and ninety-five and five one-hundredths dollars ($3,132,195.05), at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be issued for the purposes mentioned in the communication of the Public Service Commission for the First District to this Board dated July 5, 1911; provided, however, that this resolution is adopted upon the understanding that before the delivery of the contract the Public Service Commission will obtain, in proper form, a consent by the said contractor to the reduction in the size of the cross section and waiver of all claims whether for prospective profits or otherwise therefor; said consent and waiver, however, not to affect the right of the City, acting by the said Commission, to make such further changes as it may deem necessary under the provisions of the contract in respect of changes in plans.

Which was adopted by the following vote:

Affirmative—The Acting Mayor, the Comptroller, the Acting President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

On motion of the Comptroller, the Board adjourned to meet Thursday, July 27, 1911, at 10.30 o'clock in the forenoon. JOSEPH HAAG, Secretary.

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Thursday, July 27, 1911, at 10.30 a. m.

FINANCIAL AND FRANCHISE MATTERS.

The Board met in pursuance of an adjournment.

Present—William J. Gaynor, Mayor; William A. Prendergast, Comptroller; Francis P. Bent, Acting President, Board of Aldermen; George McAneny, President, Borough of Manhattan; Lewis H. Pounds, Acting President, Borough of Brooklyn; Thomas W. Whittle, Acting President, Borough of The Bronx; Lawrence Gresser, President, Borough of Queens, and George Cromwell, President, Borough of Richmond.

The Mayor, Hon. William J. Gaynor, presided.

After disposing of the Public Improvements calendar, the following Financial and Franchise matters were considered:

The minutes (Financial and Franchise Matters) of the meeting held July 6, 1911, as printed in the City Record July 27, 1911, were approved.

FRANCHISE MATTERS.

Rapid Transit Railway, 59th Street-Queensboro Bridge Route.

The consideration of the communication dated July 17, 1911, from the Public Service Commission for the First District, transmitting resolution adopted by said Commission July 14, 1911, adopting route and general plan of construction for a proposed rapid transit railway from 7th avenue and 59th street, Borough of Manhattan. under Central Park and 59th street to 5th avenue, where the tracks diverge, one track extending under and along East 59th street and the other under and along East 60th street to the Queensboro Bridge, and upon, along and over said bridge and its approaches to a point in the Borough of Queens at or about midway between William and Crescent streets, and requesting the approval and consent of this Board thereto, was opened.

This communication was presented to the Board at the meeting of July 20, 1911, and by resolution, duly adopted, this day was fixed as the date for consideration.

An affidavit of publication was received from the City Record.

No one appeared in opposition or in favor, and the Chair declared the consideration concluded.

The matter was then referred to the Franchise Committee.

Rapid Transit Railway, Battery-East River-Atlantic Avenue Route.

In the matter of the communication dated June 30, 1911, from the Public Service Commission for the First District, transmitting resolutions adopted by said Commission as to route and general plan of construction for a proposed rapid transit railroad beginning at a point under Battery Park, Borough of Manhattan, and extending under the park and ferry or waterfront property to the East River; thence under the East River to a point at or near Atlantic avenue, Borough of Brooklyn, extended with the pierhead line; thence under and along Atlantic avenue to a point in said avenue about one hundred and fifty feet east of the easterly line of Court street, Borough of Brooklyn, where a connection can be made with Section 11-D of the Fourth Avenue Subway; and requesting the approval and consent of this Board thereto.

This communication was presented to this Board at the meeting of July 6, 1911, and, by resolution duly adopted, July 13, 1911, was fixed as the date for consideration, and the communication referred to the Franchise Committee.

At the meeting of July 13, 1911, the consideration was concluded and the matter was laid over until July 17, 1911, when it was laid over until July 18, 1911, and then laid over until July 20, 1911, when it was laid over until this day.

The following appeared in opposition:

Hon. Edward M. Grout, on behalf of Abraham & Straus and others, who objected to the proposed railway on Atlantic avenue; Hon. George V. Brower; L. S. Bedford.

The following appeared in favor:

James E. Kelly, on behalf of the Board of Delegates, Allied Trades, Atlantic Avenue Civic Association, Central and Smith Street Board of Trade and the Erie Basin Board of Trade; Hon. Milo R. Maltbie, Commissioner, Public Service Commission for the First District.

The Secretary presented the following:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 11, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—At the meeting of the Board of Estimate and Apportionment on July 6, 1911, a communication was received from the Public Service Commission for the First District, transmitting for approval resolutions adopted by it on June 30, 1911, determining and establishing a route and general plan of construction for an additional rapid transit railroad to be known as the Battery-East River-Atlantic Avenue Route.

On July 6, 1911, the Board of Estimate and Apportionment adopted a resolution fixing July 13, 1911, as the date for consideration, and the communication was referred to the Franchise Committee of the Board of Estimate and Apportionment for consideration and report.

The route determined upon and established by the Public Service Commission for the First District, lies wholly within the Boroughs of Manhattan and Brooklyn. It begins at a point under Battery Park, in Manhattan, where a connection can conveniently be made with proposed rapid transit railroads in Battery Park as heretofore adopted and approved, and extends thence easterly under Battery Park and ferry or waterfront property to the East River; thence easterly under the East River to the easterly pierhead line of the East River at a point at or near the intersection of Atlantic avenue extended with the pierhead line; curving thence northeasterly under the East River, ferry or waterfront property and Atlantic avenue to a point in Atlantic avenue to a point therein about 150 feet east of the easterly line of Court street. Here a connection can conveniently be made with Section 11-D of the Fourth Avenue Route, as heretofore adopted and approved.

This route is among those recommended for construction in the report dated June 5, 1911, of the Select Committee of the Board of Estimate and Apportionment and the members of the Public Service Commission of the First District, which report has been approved by the Board of Estimate and Apportionment.

It is the opinion of your Committee that within the immediate future additional subway connections must be made between the lower part of the Borough of Manhattan and the Borough of Brooklyn.

One tunnel has been in operation about three years and has already reached its maximum capacity.

The proposed route can be used for either the Broadway-Lexington avenue line or the 7th avenue line. Both lines have their southerly terminals at the Battery, and obviously some connections should be made between these lines and their continuation in the Borough of Brooklyn.

We concur in the request of the Public Service Commission of the First District, that this route should be approved at an early date, as the construction of the under-river crossings will probably require the greatest time.

We, therefore, transmit herewith preamble and resolution, which, if adopted, will grant the request. Respectfully,

............., Mayor; WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Franchise Committee.

The following was offered:

Whereas, The Public Service Commission for the First District, constituted pursuant to the provisions of chapter 429 of the Laws of 1907, has duly determined upon a route or routes and general plan of construction of a rapid transit railway for the conveyance of persons and property, to be established in The City of New York, in addition to the already existing lines, and did by resolution of June 30, 1911, adopt such route or routes and general plan; and

Whereas, Thereafter said Public Service Commission for the First District did transmit to the Board of Estimate and Apportionment of The City of New York a copy of the plans and conclusions for said route or routes as adopted, which plans and conclusions were received by said Board of Estimate and Apportionment on the 6th day of July, 1911, at a meeting of the said Board of Estimate and Apportionment duly held on said day; and

Whereas, Said Board of Estimate and Apportionment, by resolution duly adopted at said meeting, did appoint a day not less than one week nor more than ten days after the receipt thereof for the consideration of such plans and conclusions, to wit, the 13th day of July, 1911, at 10.30 o'clock a. m.; and

Whereas, Said Board of Estimate and Apportionment, on the 13th day of July, 1911, proceeding with and concluded such consideration; and

Whereas, The plans and conclusions are fully set forth in the resolutions of said Public Service Commission for the First District adopted June 30, 1911, which resolutions are as follows:

RESOLUTIONS ADOPTED BY THE PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, JUNE 30, 1911.

Battery-East River-Atlantic Avenue Route.

Whereas, The Public Service Commission for the First District has determined that a rapid transit railroad for the conveyance and transportation of persons and property, in addition to those already existing, authorized or proposed, is necessary for the interests of the public and of The City of New York and should be established therein as hereinafter provided; and

Whereas, This Commission has duly made the inquest and investigation necessary or proper in the premises, and all such inquests and investigations as are necessary or proper for such determination,

Now, therefore, this Commission does hereby adopt the following route for an additional rapid transit railroad in The City of New York, and does hereby determine and establish the said additional route thereof as follows, and does hereby adopt a general plan of construction of the said railroad, the route of which is herein provided, and does in such general plan hereby adopted show the general mode of operation and such details as to manner of construction as may be necessary to show the extent to which any street, avenue or other public place is to be encroached upon and the property abutting thereon affected.

This Commission in adopting the said route and general plan expressly reserves all the powers in relation to the construction of the said route which are conferred upon it by the Rapid Transit Act.

Route.

A route lying wholly within the Boroughs of Manhattan and Queens, the centre line of which shall begin at a point under 59th street, in the Borough of Manhattan, at or adjoining the westerly building line of 7th avenue extended; running thence easterly under Central Park and 59th street to a point in 59th street about three hundred and fifty feet west of the centre line of 5th avenue where the tracks diverge, one track extending thence easterly under 59th street and the other track crossing under 5th avenue diagonally and continuing thence easterly under 60th street (crossing under the tracks of the New York Central and Hudson River Railroad Company in Park avenue) to points at or adjoining the easterly curb line of 2d avenue, at which points the tracks will pass into the Manhattan terminal station of the Queensboro Bridge; extending thence through such terminal to a point about three hundred and ten feet east of the easterly building line of 2d avenue; extending thence easterly along the Manhattan approach and along and across the main span of the Queensboro Bridge and along the Queens approach thereto to a point in the Borough of Queens at or about midway between William street and Crescent street.

The said route shall also include a suitable spur or connection in the Borough of Manhattan, the centre line of which shall begin at a point under 59th street, between 6th and 7th avenues, and after passing under portions of Central Park, 59th street and 7th avenue shall continue in a general southwesterly direction under 7th avenue, to a point therein at or near 57th street, where a connection can conveniently be made with a proposed rapid transit railroad in 7th avenue as heretofore adopted and approved.

General Plan of Construction.

The general plan of construction hereby adopted for the foregoing route is as follows:

For the entire route there shall be two tracks, except that from a point about three hundred and fifty feet west of the centre line of 5th avenue to points at or adjoining the easterly curb line of 2d avenue, one of such tracks shall be constructed under 59th street and the other track diagonally under 5th avenue and under 60th street. For the spur of connection above described there shall be two tracks.

All of such tracks except those upon the Queensboro Bridge and its approaches shall be placed in subway or tunnel. Where there are two or more tracks in one street, such subways or, tunnels shall be substantially parallel with each other and on substantially the same level; except that wherever required by special necessities of surface or subsurface structures or other special or local necessities, or for the purpose of avoiding grade crossings, any one or more of the tracks may be depressed below the level of the other track or tracks so far as may be necessary. Upon the Queensboro Bridge and the approaches thereto there shall be occupied part of the viaduct and two of the tracks constructed or to be constructed by the City as part of such bridge structure.

The tracks shall be placed in general under the central part of the longitudinal streets of the route so far as may be practicable and convenient, except that wherever required by special or local necessities or for curves and at stations and station approaches the tracks or any one or more of them may be diverted as far as necessary to one side or the other of the longitudinal streets of the route or any of them. Any part of the longitudinal streets of the route may be occupied so far as the purposes of this general plan require.

The roof of the tunnels when under the streets shall be as near the surface of the street as street conditions and grades and rapid transit railroads heretofore proposed or constructed will conveniently permit.

The tunnels above described shall in no case be more than sixteen (16) feet in height in the clear.

The roof of the said tunnels shall be of iron or steel with brick or concrete arches, supported when necessary by iron or steel or masonry columns and resting upon masonry walls; or the roof shall be a masonry structure, or the whole of the lining may be of metal.

Adjacent tracks may be connected by necessary and suitable switches and connections, and additional track for siding accommodations may be constructed not to exceed in length one-fourth of a mile for each mile of roadway.

Except upon the Queensboro Bridge or bridge viaduct or approach, the tracks where there are two or more tracks under a street, may at any point of the said route be placed in the same tunnel; or there may be separate tunnels for one or more tracks as shall be most convenient.

The tracks shall be of standard gauge, that is to say, of the width of four (4) feet and eight and one-half (8½) inches between the rails.

There shall be a width in the tunnels not exceeding fifteen (15) feet for each track in addition to the thickness of the supporting walls, unless it shall be necessary to tunnel by the shield method, in which event the tracks may be placed in tubes not exceeding twenty (20) feet in outside diameter and driven or placed along such part of the street or streets as shall be most practicable and convenient, except that at stations, station approaches, switches, turnouts, curves and crossovers, the width or diameter may be increased.

Stations and station approaches shall in general be at the intersections of streets and shall be built under the streets or through or under private property to be acquired for the purpose or both under streets and through or under private property as aforesaid. The streets under which stations or station approaches shall be built may include cross streets, but no part of any cross street shall be used for a station or station approach at a distance greater than seventy-five (75) feet from the exterior line or side of the longitudinal street of the route.

Wherever along any part of the route above described it shall be necessary for the proper maintenance or accommodation of pipes, wires, sewers or other subsurface structures, the removal, construction or reconstruction of which shall be rendered necessary by the construction of the railroad, any tunnel or subway may be enlarged on either or both sides by an additional width not to exceed fifteen (15) feet on each side of the route. All or any pipes, wires, sewers or other subsurface structures may be placed in suitable galleries to be constructed within the additional width hereinbefore permitted. At each cross street where accommodation for pipes, wires, sewers and other subsurface structures shall be thus provided within the tunnels or subways, such tunnels or subways, in order to provide convenient access to the same, may have, within the limit of the sides or exterior lines of such cross streets or such lines produced, an additional width on each side of the route not to exceed fifteen (15) feet.

Pipes, wires sewers, street railway tracks, poles for electric wires and other surface and subsurface structures at any part of the said route shall be removed or disturbed only when necessary for the construction or operation of the railroad above referred to, and if removed or disturbed shall be placed over, upon or under the several streets in such manner and in such location that the use and service thereof shall not be impaired. All pipes, wires, sewers and other subsurface structures shall be left or shall be so arranged as to give free access for their repair or alteration, or for the placing with them, so far as there may be space, of new pipes, wires, sewers and other like structures, and for making connection between the same and abutting buildings at any time.

The manner of construction shall be by tunneling or excavation under cover, except in places where this Commission shall give express permission to construct by open excavation.

In parks, parkways and public places under the jurisdiction of the Department of Parks, all trees injured or destroyed shall so far as possible be replaced under the direction and to the satisfaction of the said Department.

Mode of Operation.

The general mode of operation of the route above described shall be by electricity or some other power not requiring combustion within the tunnels as shall be capable of furnishng transportation at a speed of not less than forty (40) miles per hour for long distances, exclusive of stops.

Definitions.

The word "street" wherever used herein shall include an avenue or public place.

The words "Rapid Transit Act" wherever used herein shall be taken and held to mean chapter 4 of the Laws of 1891, as amended by chapter 752 of the Laws of 1894, and by other acts of the Legislature.

Maps and Drawings.

It is further Resolved, That the maps or drawings, dated July 6, 1911, entitled "State of New York, Public Service Commission for the First District, Engineering Department, Routes and General Plan. Route No. 36, 59th street—Queensboro Bridge—from 7th avenue, Manhattan, to Crescent street, Queens," and designated respectively 36, Sheet No. 1 and 36, Sheet No. 2, are hereby adopted as showing the foregoing route and general plan for convenience merely, and that said maps or drawings are not to be deemed a part of the description of the route or a part of the general plan for any purpose whatever.

Resolved, That the Board of Estimate and Apportionment of The City of New York, by a majority vote, according to the number of votes by law pertaining to each member of the Board, hereby approves such plans and conclusions and consents to the construction of a railway or railways in accordance therewith.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx and the President of the Borough of Richmond—12.

Negative—The President of the Borough of Queens—1.

Present and Not Voting—The Mayor—3.

His Honor, the Mayor, stated he would refrain from voting or expressing his views thereon until the matter came before him as Mayor for his approval as required by law.

Bronx Traction Company.

A communication was received from Edward Polak on behalf of property owners in the vicinity of Schuyler road, Shore drive and Eastern boulevard, the Parents' Association of Public School No. 4, and the Federated Parents' Association of Greater New York in opposition to the grant of a franchise to The Bronx Traction Company to operate a railroad in any part of Pelham Bay Park.

At the meeting of July 6, 1911, the petition of this Company for a franchise in this locality was referred to the President of the Borough of The Bronx.

The communication was ordered filed and the Secretary directed to forward a copy of the same to the President of the Borough of The Bronx.

Communications from the Mayor's Office.

Communications were received from the Mayor's office returning duly approved by his Honor the Mayor, on July 11, 1911, resolutions adopted by this Board July 6, 1911, as follows:

(a) Modifying ordinance of August 2, 1904, granting a franchise to the New York, Westchester and Boston Railway Company.

(b) Granting a franchise to the Southern Boulevard Railroad Company.

(c) Approving agreement proposed to be entered into with the Nassau Electric Railroad Company and others for the use of a certain piece of track in Flatbush avenue between Atlantic and 4th avenues.

(d) Granting permission to J. B. Malatesta to construct, maintain and use a narrow-gauge railroad track in the Borough of The Bronx.

(e) Granting permission to the Mason and Hanger Company to install, maintain and use a compressed air line in the Borough of The Bronx.

(f) Granting permission to the Lakeville Holding and Development Company to construct, maintain and operate a single span bridge over and across Little Neck road, Borough of Queens.

(g) Granting permission to the Lakeville Holding and Development Company to construct, maintain and operate a single span bridge over and across Alley road, Borough of Queens.

(h) Granting permission to the Greenhut-Siegel Cooper Company to construct, maintain and use a conduit under and across 6th avenue, Borough of Manhattan.

(i) Granting permission to the New York Central and Hudson Railroad Company to continue to maintain and use an existing track across Harlem River terrace, Borough of The Bronx.

(j) Granting permission to the New York Edison Company to install, maintain and use additional ducts in existing bridge over East 39th street, Borough of Manhattan.

(k) Granting permission to the American Ice Company to transfer to the Ice Manufacturing Company all of its right, title and interest in a certain pipe under and along East 70th and Exterior streets, Borough of Manhattan.

(l) Revoking consent to Hardman, Peck and Company to install, maintain and use a pipe across West 49th street, Borough of Manhattan.

(m) Revoking consent to R. J. Dean and Company to install, maintain and use a pipe under and across Greenwich street, Borough of Manhattan.

Returning duly approved by his Honor the Mayor on July 12, 1911, resolution adopted by this Board July 6, 1911, as follows:

(a) Granting permission to the Lakeville Holding and Development Company to construct, maintain and use a single span bridge across Clinton avenue, Borough of Queens.

Designating newspapers as follows:

(a) The New York Herald and the New York Press as the newspapers in which the form of contract and notice of hearing thereon for a grant of a franchise to the New York City Interborough Railway Company to construct, maintain and operate a railway on Dongan street, Stebbins avenue and 163d street and other streets in the Borough of The Bronx shall be pubished prior to the final hearing on September 21, 1911.

(b) The New York Sun and Evening Mail as newspapers in which the resolution, form of contract and notice of hearing thereon for a grant of a franchise to the New York City Interborough Railway to construct, maintain and operate a railway on West 145th street, from Lenox avenue to Broadway, Borough of Manhattan, shall be published prior to the final hearing on September 21, 1911.

(c) The Globe and Standard Union as the newspapers in which the resolution, form of contract and notice of hearing thereon for a grant of a franchise to the New

York City Interborough Railway Company to construct, maintain and operate a railway upon and along 149th street and Southern boulevard, Borough of The Bronx, shall be published prior to the final hearing on September 21, 1911.

(d) The Sun and the New York Press as the newspapers in which the petition and notice of hearing thereon for a grant of a franchise to the Manhattan Bridge Service Company shall be published prior to the hearing on September 21, 1911.

(e) The New York Herald and New York Press as the daily newspapers in which the petition and notice of hearing thereon of the Staten Island Rapid Transit Railway Company for an extension of time to complete construction of tracks across Richmond terrace, Borough of Richmond, shall be published prior to the hearing on September 21, 1911.

(f) The Evening Mail and the Globe as the daily newspapers in which the petition and notice of hearing thereon of the New York Magnaphone and Music Company shall be published prior to the hearing on September 21, 1911.

Which were ordered filed.

New York, New Haven and Hartford Railroad Company.

In the matter of the petition of the New York, New Haven and Hartford Railroad Company for the cancellation of a certain bond in the sum of two hundred thousand dollars ($200,000) for the faithful performance of the terms and conditions of agreement dated December 21, 1904, relative to the six-tracking of the Harlem River and Port Chester Railroad Company, a leased line of this Company.

At the meeting of June 22, 1911, by resolution duly adopted the Comptroller was authorized to cancel the bond upon the filing of a new bond of thirty thousand dollars ($30,000) by the Company.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 19, 1911.

Nos. 5026—9300.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—By resolution adopted by the Board of Estimate and Apportionment at its meeting of June 22, 1911, the Comptroller of the City was authorized to cancel a certain bond in the sum of $200,000 given by the New York, New Haven and Hartford Railroad Company to insure the faithful performance of the terms and conditions of an agreement dated December 21, 1904, between the City and the Company upon the filing by the Company of a new bond in the sum of $30,000.

As was recited in a report of this Bureau presented at the meeting of June 22, all the work under the agreement of December 21, 1904, has been performed by the Company with the exception of the construction of two footbridges at Lincoln and Forest avenues. These bridges the Company is willing to construct at such time in the future as they may be called for by the City and the new bond is to be given to insure such construction.

After the adoption of the resolution authorizing the cancellation of the $200,000 bond and the substitution therefor of a bond in a lesser amount, a copy of the same was forwarded to the attorney for the Company.

In a communication under date of June 30, 1911, Mr. Charles M. Sheafe, Jr., attorney for the New York, New Haven and Hartford Railroad Company, acknowledges the receipt of the resolution and states that in his opinion $30,000 is too large an amount for the new bond, and requests to be advised as to the procedure necessary to have the amount of the bond reduced. The matter has since been taken up with Mr. Sheafe, and in view of the fact that the Company has been paying carrying charges on the bond of $200,000 since December, 1904, and the delay in building these two bridges has been entirely due to the fact that the City has not been and is not ready as yet to designate a location for the same, I am willing to recommend that the new bond be reduced to $10,000. There is transmitted herewith a resolution authorizing the Comptroller to accept the bond in the sum of $10,000 and upon the filing of the same by the Company to cancel the bond for $200,000, now on file in his office. Such resolution also rescinds the resolution adopted by the Board at its meeeting of June 22, 1911.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The Board of Estimate and Apportionment did by resolution adopted December 23, 1904, and approved by the Mayor December 28, 1904, accept a certain agreement executed by the New York, New Haven and Hartford Railroad Company December 21, 1904, in relation to the six tracking of the Harlem

River and Port Chester Railroad, leased to said New York, New Haven and Hartford Railroad Company, and

Whereas, By the terms of said agreement the Company was, at its own cost and expense, to erect certain bridges and perform certain other work, as therein more particularly specified, and

Whereas, The time allowed for the completion of the work under the said agreement expired April 1, 1909, and

Whereas, The Board of Estimate and Apportionment did, by resolutions adopted June 25, 1909, December 3, 1909, and October 28, 1910, and approved by the Mayor June 29, 1909, December 6, 1909, and November 3, 1910, respectively, grant said Company extensions of time up to and including April 1, 1911, for the completion of the work specified in the aforesaid agreement, and

Whereas, The President of the Borough of The Bronx in a communication dated May 31, 1911, has certified that the Company has completed all of the work under the aforesaid agreement with the exception of the construction of two footbridges over the tracks of the Company at Lincoln and Forest avenues, and

Whereas, Pursuant to the provisions of said agreement the New Haven Company furnished a bond in the sum of $200,000 for the faithful performance of all the terms and conditions of said agreement, and

Whereas, The Company has, by a petition dated October 11, 1909, requested that said bond in the sum of $200,000 be canceled and that a bond for a less amount be substituted therefor, and

Whereas, This Board did, by resolution adopted June 22, 1911, authorize the Comptroller of the City to cancel said bond in the sum of $200,000 upon the filing by the Company of a bond in the sum of $30,000, and

Whereas, The attorney for the Company, in a communication dated June 30, 1911, has requested that the amount of said bond be still further reduced; now, therefore, be it

Resolved, That the Comptroller of the City be, and he hereby is, authorized, upon the filing by the Company of a bond in the sum of $10,000 given to insure the faithful performance of the terms and conditions of said agreement of December 21, 1904, to cancel the bond in the sum of $200,000, heretofore given by the Company for the above named purpose, and be it further

Resolved, That the resolution adopted by this Board June 22, 1911, authorizing the cancellation of said bond in the sum of $200,000 upon the filing by the Company of a bond in the sum of $30,000 be and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

E. F. Keating Company.

In the matter of the pipe maintained by E. F. Keating Company under and across Water street, connecting premises Nos. 435 and 437 with 452 Water street, Borough of Manhattan.

By resolution adopted June 8, 1911, this Company was directed to remove said pipe, restore the street surface and pay into the City treasury the sum of three hundred and ninety dollars ($390) as full compensation for the past use and occupation of said street.

The Secretary presented the following:

Nos. 6545—8494.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 17, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—At the meeting of the Board of Estimate and Apportionment held June 8, 1911, resolution was adopted directing the E. F. Keating Company to pay into the City Treasury on or before July 1, 1911, the sum of three hundred and ninety dollars as full compensation for the past use of Water street, Borough of Manhattan, by a certain pipe under and across Water street connecting the said company's premises known as 435-437 and 452 Water street. The resolution further provided that the President of the Borough of Manhattan remove such portion of the said pipe as might in his opinion be necessary to render the remainder of the pipe unfit for service and advise the Board when such work was completed.

I have now been informed by the office of the Comptroller that in compliance with said resolution the sum of three hundred and ninety dollars was paid into the

City Treasury on June 29, and in a communication dated June 19, 1911, the Commissioner of Public Works had advised me that the pipe has been removed.

Payment having been made, as required, and the pipe having been removed from the street, the entire matter is closed, and I would suggest that the papers be ordered filed. Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

Which was ordered filed.

Fred Oppermann, Jr., Brewing Company.

In the matter of the pipe maintained by the Fred Oppermann, Jr., Brewing Company under and across East 45th street, connecting Nos. 333 and 335 East 45th street, Borough of Manhattan.

By resolution adopted February 2, 1911, this Company was directed to remove said pipe, restore the street surface and pay into the City treasury the sum of five hundred dollars ($500) for the past use and occupation of said street.

The Secretary presented the following:

No. 6611.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 17, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—At the meeting of the Board of Estimate and Apportionment, held February 2, 1911, a resolution was adopted directing the Fred Oppermann, Jr. Brewing Company to remove on or before April 1, 1911, certain pipes under and across East 45th street, Borough of Manhattan, connecting 333 and 334 East 45th street, the said pipes having been installed without proper authorization. The resolution also directed the Comptroller to make formal demand upon the Company for the payment of certain moneys for the past use and occupation of the said street by the pipes.

Subsequently, at the meeting held April 27, 1911, the resolution of February 2, 1911 was amended so as to provide for the removal of the pipes by May 15, 1911 and the payment of five hundred dollars for the past use and occupation of the street.

I am now in receipt of communications from the Commissioner of Public Works and the Deputy Commissioner of Water Supply, Gas and Electricity dated respectively June 30 and June 29, 1911, stating that the pipes have been removed and the pavement restored. The Finance Department has also advised me that on May 15, 1911, the Brewing Company paid into the City Treasury the sum of five hundred dollars for the past use and occupation of East 45th street by the said pipes.

Payment having been made, as required, and the pipes having been removed from the street, thus entirely closing this matter, I would suggest that the papers be ordered filed. Respectively, HARRY P. NICHOLS, Engineer, Chief of Bureau.

Which was ordered filed.

Rockwood & Co.

The Secretary presented the following:

Parfitt Brothers, Architects, 26 Court Street, Brooklyn, N. Y., June 20, 1911.

To the Board of Estimate and Apportionment, City of New York:

Sirs—The owners and users of the factory property situate on the northeast corner of Park and Waverly avenues, as per map and plan attached, made by Parfitt Brothers, architects, office, 26 Court street, Brooklyn, respectfully request permission to erect on the Waverly avenue sidewalk, at a point 67 feet 2 inches north of Park avenue, a sidewalk platform scale, size 8 feet by 14 feet, the top of same to be level with and set at the grade of said sidewalk.

Said scale to be for the exclusive use of the petitioners to weigh merchandise to be manufactured on said property. Respectfully submitted,

ROCKWOOD & CO., Wallace F. Jones, President.

No. 9225.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 20, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—Rockwood & Co. has presented a petition dated June 20, 1911, to the Board of Estimate and Apportionment for permission to construct, maintain and use a platform scale eight feet by fourteen feet in front of its premises and within the easterly sidewalk lines of Waverly avenue, in the Borough of Brooklyn, at a point about sixty-seven feet two inches north of the northerly line of Park avenue, for the purpose of weighing merchandise in wagons.

A copy of the petition and accompanying plan was sent to the President of the Borough of Brooklyn with a request that examinations be made by the various bureaus having jurisdiction, with a view to ascertaining if there are any objections to the scale or any particular conditions which should be incorporated in the form of consent heretofore used by the Board for private structures in the City streets. In a reply dated June 30, 1911, I have been informed that there are no objections to the scale, and no particular conditions necessary to be inserted in the form of consent.

The sidewalk in front of the premises of the petitioner is paved with granite block, and the proposed scale is to be set at the grade of the sidewalk. At present trucks back up on the sidewalk to a loading platform in front of the petitioner's platforms and are kept standing in that position for some time while the merchandise to be loaded on the trucks is weighed on small scales situated within the building lines. By weighing the entire truck loads on the proposed scale the period of occupation of the sidewalk by the trucks will be lessened.

With the exception of two small frame dwellings, the entire block between Park avenue and Flushing avenue is occupied by factories, and there is very little use made of the sidewalks by pedestrians.

In view of these facts and as the President of the Borough has stated that there are no objections to the scale, I can see no good reason why the requested permission should not be given should the Board see fit to do so. In such case I would suggest that consent be granted only during the pleasure of the Board of Estimate and Apportionment, but in no case to extend beyond a term of ten (10) years from the date of the approval of the consent by the Mayor and revocable upon sixty (60) days' notice, and that it be made a condition of the consent that a security deposit in the sum of five hundred dollars ($500) be required, said deposit to be in the form of either money or securities to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

No precedent has been heretofore established by the Board upon which to fix the compensation for the privilege. I would, therefore, suggest that the charge be fixed at the minimum of one hundred dollars per annum, heretofore established by the Board for private structures in the city streets.

The customary form of resolution granting the consent is herewith submitted for adoption. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, Rockwood & Co. has presented a petition dated June 20, 1911, to the Board of Estimate and Apportionment for permission to construct, maintain and use a platform scale in front of its premises within the easterly sidewalk lines of Waverly avenue at a point sixty-seven feet north of the northerly line of Park avenue, in the Borough of Brooklyn; now, therefore, be it

Resolved, That the consent of the Corporation of The City of New York be, and the same is, hereby given to Rockwood & Co. to construct, maintain and use a platform scale eight feet by fourteen feet in front of its premises within the easterly sidewalk line of Waverly avenue at a point sixty-seven feet two inches north of the northerly line of Park avenue, in the Borough of Brooklyn; the said scale to be used for the purpose of weighing the petitioner's merchandise loaded on wagons and for no other purpose, all as shown on the plan accompanying the application and entitled: "Plan showing location of Proposed Platform Scale to be constructed on the east side of Waverly avenue, Borough of Brooklyn to accompany application dated June 20, 1911, of Rockwood & Co. to the Board of Estimate and Apportionment, City of New York," and signed Rockwood & Co., by C. T. Pierce, Vice-President, a copy of which is attached hereto and made a part hereof upon the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, one hundred dollars ($100) per annum. Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of

the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission to be restored to its proper and original condition, if required to do so by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—

(*a*) Its construction, maintenance and removal.

(*b*) The protection of all structures which shall in any way be disturbed by its construction or removal.

(*c*) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(*d*) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(*e*) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(*f*) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the competion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized, and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of five hundred dollars ($500), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of five hundred dollars ($500), and in default of the payment thereof, the consent hereby given may be canceled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before November 1, 1911, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

Astoria Light, Heat and Power Company.

In the matter of the consent granted to the Astoria Light, Heat and Power Company to install, maintain and use an 8-inch pipe under and across East 132d street, east of Locust avenue, Borough of The Bronx, connecting premises of the grantee on opposite sides of said street, for the purpose of conveying steam between said premises.

The Secretary presented the following:

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 15, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—By resolution adopted by the Board of Estimate and Apportionment June 8, 1911, approved by the Mayor June 9, 1911, the Astoria Light, Heat and Power Company was granted permission to install, maintain and use an eight-inch pipe under and across East 132d street, east of Locust avenue, Borough of The Bronx, connecting premises of the grantee on opposite sides of said street, for the purpose of conveying steam between said premises.

Section 15 of the consent provides as follows:

"This consent shall be null and void unless said grantee shall duly execute an instrument in writing wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained, and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

"And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized."

Under and pursuant to the above-quoted section, the grantee presented an agreement dated June 20, 1911. This agreement was approved as to form by the Corporation Counsel and returned to this office with a communication dated July 5, 1911.

The Departments interested, likewise the grantee, have been furnished with certified copies of the approved resolution and the grant is now in full force and effect.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

Which was ordered filed.

A. Hupfel's Sons.

An application was received from A. Hupfel's Sons for permission to construct, maintain and use a 2-inch water pipe under St. Anns avenue, connecting premises of the petitioner on the block bounded by St. Anns avenue, East 159th street and East 161st street and the property at the southwest corner of East 159th street and St. Anns avenue, Borough of The Bronx, leased by the petitioner for the purpose of conveying water from an artesian well to its brewery.

This application is submitted in lieu of communication received from said Company for said right at the meeting of May 25, 1911.

The application was referred to the Bureau of Franchises.

Tuttle & Bailey Manufacturing Company.

The Secretary presented the following:

To the Honorable, the Board of Estimate and Apportionment, The City of New York:

Gentlemen—Your petitioner, the Tuttle & Bailey Manufacturing Company, respectfully shows to your honorable Board that it is a domestic corporation, duly organized and existing under and by virtue of the laws of the State of New York.

Your petitioner further shows that it is the owner in fee simple of the following-described real estate situate in the Borough of Brooklyn, in the City and State of New York, that is to say, Lot numbered one (1) in Block numbered twenty-two ninety-six (2296) in Section numbered eight (8), with a frontage of two hundred twenty-five (225) feet five (5) inches on the northerly side of North 10th street, and known as number seventy-nine (79) to ninety-five (95), both inclusive, and Lot numbered nine (9) in Block numbered twenty-three hundred and three (2303) in Section numbered eight (8), and with a frontage of three hundred and fifty (350) feet on the southerly side of North 10th street, and known as numbers ninety-eight (98) to one hundred and twenty-four (124), both inclusive, and that your petitioner occupies and uses said real property in its general business of manufacturing iron, steel and metal work.

The said Tuttle & Bailey Manufacturing Company hereby respectfully petitions your honorable Board to be permitted to construct, operate and maintain a pipe line under and across North 10th street, between Berry street and Wythe avenue, in the said Borough of Brooklyn, connecting the properties of the said Company as is more specifically shown by the formal drawing and plan submitted herewith.

The said pipe line is intended to carry:

(a) Piping carrying electric wiring.

(b) Piping carrying steam of a maximum pressure of 175 pounds per square inch.

(c) Piping carrying compressed air at a maximum pressure of 100 pounds per square inch.

(d) Such other and additional piping as may become necessary through the growth and expansion of the business of your petitioner.

In that regard your petitioner shows that it moved to its present location in the year 1866, then occupying the said Lot number one (1) only, and that the growth of its said business since said time has been such as to warrant the belief that a pipe under and across said North 10th street, of a diameter of less than sixteen (16) inches, would be wholly insufficient to meet the necessities of its growing business.

Referring to the miniature track across said street, shown in the plan herewith:

By a resolution, number thirty-three (33), duly adopted on or about the ninth (9th) day of October, A. D. eighteen ninety-three (1893), by the then Board of Aldermen of the then City of Brooklyn, the said Tuttle & Bailey Manufacturing Company was duly authorized to construct, operate and maintain said track over, upon and across said street.

Accompanying this petition are submitted:

(a) The original petition and four (4) copies thereof.

(b) A plan, eighteen (18) inches by twenty-four (24) inches, drawn upon tracing cloth, to a definite scale, showing thereon the location of the properties of the applicant on both sides of the street, the building and curb lines, all tracks, electrical conduits, sewers and similar substructures in the street, also sections, longitudinal and transverse, indicating in detail all distances and dimensions; also the manner of construction and character of materials to be used in said proposed work. The details of existing structures are shown in black, and the details of the proposed new construction are shown in red in the said plan.

(c) Nine (9) litho prints from the said tracing, two (2) on paper and seven (7) on cloth, in addition to the tracing, each print colored the same as the tracing.

Dated this twenty-ninth (29th) day of June, A. D. 1911.

TUTTLE & BAILEY MANUFACTURING COMPANY, by SILAS TUTTLE, its President.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 21, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—The Tuttle & Bailey Manufacturing Company has presented a petition dated June 29, 1911, to the Board of Estimate and Apportionment for permission to install, maintain and use a pipe sixteen inches outside diameter under and across North 10th street, Borough of Brooklyn, at a point approximately 220 feet east of the easterly line of Wythe avenue, for the purpose of connecting properties owned by the petitioner on the opposite sides of said street and known respectively as 79-95 and 98-124 North 10th street. Such pipe is to be used exclusively by the petitioner and is to contain smaller pipes for the transmission of electric current, steam, compressed air and such other piping as may become necessary.

The petition recites that the company is a domestic corporation and the owner of the property to be connected by the pipe and will use the same in its general business of manufacturing iron, steel and metal work.

Copies of the petition and accompanying plan were sent to the President of the Borough of Brooklyn and the Commissioner of Water Supply, Gas and Electricity, with a request that examinations be made by the various bureaus having jurisdiction, with a view to ascertaining if there are any objections to the proposed pipe or any particular conditions necessary to be incorporated in the form of consent used by the Board for similar privileges.

In replies dated respectively July 19 and July 20, 1911, the said officials have stated that there are no objections to the pipe and no particular conditions necessary to be inserted in the form of consent. As there are no objections to the proposed pipe, I can see no good reason why the requested permission should not be given should the Board see fit to do so. In such case I would suggest that the consent be given only during the pleasure of the Board of Estimate and Apportionment, but in no case to extend beyond a period of ten (10) years from the date of the approval of the consent by the Mayor, and revocable upon sixty days' notice in writing, and that it be made a condition of the consent that a security deposit in the sum of five hundred dollars be required, said deposit to be in the form of either cash or securities to be approved by and deposited with the Comptroller for the faithful performance of the terms and conditions of the consent.

The length of the proposed pipe between building lines is sixty feet. On the basis of charge heretofore fixed by the Board for private pipes in the city streets, namely, $2 per linear foot for pipes not exceeding 100 feet in length and sixteen inches in diameter, the charge for the privilege should be $120 per annum. Such sum to be paid into the City Treasury in advance on November 1 of each year.

It has been made a condition of the resolution herewith submitted that the pipe be installed by December 1, 1911.

The customary examination by a representative of this Bureau having revealed the presence of other structures in North 10th street in the vicinity of the proposed sixteen-inch pipe, the company was requested to furnish a list of all structures maintained by it under and across said street. In a communication under date of July 18, 1911, the company states that as near as can be determined at the present time it is maintaining the following: One 6-inch water main, one 8-inch water main, two 1¼-inch electrical conduits and two 1½-inch electrical conduits.

As the records of this Bureau do not show any authority for the existence of these structures there is transmitted herewith a resolution directing the company to advise the Board on or before October 1, 1911, under what authority said structures were installed or in the event of their having been installed without authority to present an application for their continued use and maintenance.

Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The Tuttle & Bailey Manufacturing Company has presented a petition dated June 29, 1911, to the Board of Estimate and Apportionment for its consent to the installation, maintenance and use of a pipe 16 inches outside diameter under and across North 10th street, Borough of Brooklyn, at a point 221 feet 8 inches east of the easterly line of Wythe avenue, connecting properties owned by the petitioner on opposite sides of said street, known as 79-95 and 98-124 North 10th street, and to be used exclusively by the petitioner to contain smaller pipes for the transmission of electric current, steam, compressed air and such other additional piping as may become necessary; now, therefore, be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to Tuttle & Bailey Manufacturing Company, a domestic corporation, and the owner of certain properties on opposite sides of North 10th street, Borough of Brooklyn, City of New York, known as 79-95 North 10th street and 98-124 North 10th street, to install, maintain and use a pipe 16 inches outside diameter under and across said North 10th street, at a point 221 feet 8 inches east of the easterly line of Wythe avenue, connecting said property; the said pipe to contain smaller pipes for the transmission of electric current, steam, compressed air and any other additional piping that may become necessary, all to be used exclusively by the petitioner for carrying on its business and for no other purpose, all as shown on the plan accompanying the application and entitled: "Plan showing location of Proposed Pipe Line to be constructed in North 10th street, Borough of Brooklyn, to accompany application of Tuttle & Bailey Manufacturing Company, to the Board of Estimate and Apportionment, City of New York, dated June 29, 1911," and signed Silas Tuttle, President, a copy of which is annexed hereto and made a part hereof upon the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon six (60) days' notice in writing to the grantee, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantee in said street by virtue of this consent shall cease and determine.

2. The grantee shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted the annual sum of $120. Such payments shall be made in advance on November 1 of each year, provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tav, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the removal of the grantee from either of the premises to be connected by the structure, or upon the revocation or termination by limitation of this consent, the grantee shall cause the structure hereby authorized to be removed and all of said street affected by this permission restored to its proper and original condition, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantee. If the structure hereby authorized shall not be required to be removed, it is agreed that it shall become the property of The City of Nw York.

4. This consent is for the exclusive use of the grantee and shall not be assigned either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the grantee or by operation of law, without the consent in writing of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantee shall pay the entire cost of all work, labor and material in connection with the structure hereby authorized, and particularly—.

(*a*) Its construction, maintenance and removal.

(*b*) The protection of all structures which shall in any way be disturbed by its construction or removal.

(*c*) All changes in sewers or other subsurface structures necessitated by its construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(*d*) The replacing or restoring of the pavement in said street which may be disturbed during its construction or removal.

(*e*) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by its presence in the street.

(*f*) The inspection of all work during its construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantee shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantee shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantee shall submit to those officials working plans which shall include and show in detail the method of construction of the structure hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work, the grantee shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structure erected or installed under this consent; also the location and dimensions of all substructures, encountered during the progress of the work. The depth below the street surface of the new structure and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

7. The grantee shall allow to The City of New York a right of way through, under or above any part of the structure hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structure hereby authorized and the grantee shall pay to the City the expense incurred by such removal.

8. The structure hereby authorized and any fixtures laid therein shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. It shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantee shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structure hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantee shall deposit with the Comptroller of The City of New York the sum of five hundred dollars ($500), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structure hereby authorized. In case of default in the performance by said grantee of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice in writing to the said grantee.

In case of any drafts so made upon the security fund the said grantee shall, upon thirty (30) days' notice in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of five hundred dollars ($500), and in default of the payment thereof, the consent hereby given may be canceled and annulled, at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or causes of action belonging to The City of New York.

13. Said grantee shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of its intention to begin the work hereby authorized at least forty-eight hours before such work commences. The grantee shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantee shall commence the construction of the structure hereby authorized and complete the same on or before December 1, 1911, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantee shall duly execute an instrument in writing, wherein said grantee shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instrument with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantee shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structure hereby authorized.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following was offered:

Whereas, Tuttle and Bailey Manufacturing Company is maintaining one 6-inch water main, one 8-inch water main, two 1½-inch electrical conduits, and two 1¼-inch electrical conduits, under and across North 10th street, between Wythe avenue and Berry street, in the Borough of Brooklyn; and

Whereas, Said structures are maintained without apparent authority; now, therefore, be it

Resolved, That Tuttle and Bailey Manufacturing Company be and it hereby is directed to advise this Board on or before October 1, 1911, under what authority said structures were installed and are now maintained, or in the event of said structures having been installed and maintained without proper authority, to present an application on or before October 1, 1911, to the Board of Estimate and Apportionment for permission to continue to use and maintain said structures.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

Gimbel Brothers, New York.

An application was received from Gimbel Brothers, New York, for an extension of time until September 1, 1911, in which to accept the consent granted said Company by resolution adopted June 8, 1911, approved by the Mayor June 9, 1911, to install, maintain and use a bridge over and across West 33d street, connecting its department store on the westerly side of 6th avenue between 32d and 33d streets, with the elevated railway station at 33d street and 6th avenue.

Which was referred to the Bureau of Franchises.

Union Railway Company of New York City.

Copies of consents of abutting property owners to the construction, maintenance and operation of a street surface railway by the Union Railway Company of New York City as an extension to its existing system on Broadway, from 225th to 230th street, Boroughs of Manhattan and The Bronx, were received.

This franchise was granted by resolution adopted by this Board April 13, 1911, approved by the Mayor on the same day.

The copies of consents were referred to the Bureau of Franchises.

New York, New Haven and Hartford Railroad Company.

In the matter of the application of the New York, New Haven and Hartford Railroad Company for permission to construct, maintain and use foundations for three catenary bridges to be located on property of the City along the northerly side of West Farms road, between Adams and Taylor streets, Borough of The Bronx.

This petition was presented to the Board at the meeting of May 11, 1911, and referred to the Bureau of Franchises.

The Secretary presented the following:

Report No. 9012.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 19, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—The New York, New Haven and Hartford Railroad Company and the Harlem River and Port Chester Railroad Company, leased to and operated by the New Haven Company, have presented a joint petition dated May 2, 1911, to the Board of Estimate and Apportionment, requesting the consent of the City to the construction, maintenance and use of foundations for three catenary bridges to be located on property of the City along the northerly side of West Farms road, between Adams and Taylor streets, Borough of The Bronx. The petition was presented to the Board at its meeting of May 11, 1911, and referred to the Chief Engineer and Bureau of Franchises.

It is recited in the petition that the catenary bridges are made necessary by the change of motive power on the line of the Harlem River and Port Chester Railroad Company from steam to the overhead system of electricity and that in order to complete the construction of three of the bridges it will be necessary to erect catenary poles on the top of the City's retaining wall along the northerly side of West Farms road. From an examination of the plans submitted with the petition it would appear that the bridges are to be erected at points approximately forty-four feet east of the easterly line of Adams street, midway between Van Buren and Hancock streets and midway between Hancock and Taylor streets. It further appears from such plans that the steel foundation or base-plates which occupy a width of seventeen inches, measured at right angles to the tracks of the Company, and a length of three feet eight inches, measured parallel to said tracks, are to be set in the top of the retaining wall along the northerly side of West Farms road and forming the dividing line between that street and the right of way of the Company in such manner that no portion of these foundations will overhang the coping of the wall on the side adjacent to the street. At the first of the above named points the bridge truss rests directly upon the wall, and at the other two points steel posts, approximately twelve feet high in one case and nineteen feet in the other, are to be erected on the wall to support the catenary bridges spanning the tracks of the Company and supporting the wire carrying electric power. No portion of the surface of the street is to be occupied by the structures.

The petition was referred to the President of the Borough of The Bronx with a request that he advise this Bureau if, in his opinion, any particular conditions should be imposed in the form of consent granting the requested permission. In a communication under date of June 26, 1911, said official states that he has no objection to the project, nor any conditions other than those heretofore employed to suggest for incorporation in the consent.

I can see no reason why permission should not be granted for the use of the retaining wall as above described, and there is transmitted herewith the usual form of consent revocable upon sixty (60) days' notice to the grantee, and in no case to extend beyond a term of ten (10) years from the date of its approval by the Mayor.

The compensation for the privilege has been fixed at one hundred dollars ($100) a year, the minimum charge established by the Board for similar privileges. It has been made a condition of the consent that within sixty (60) days after its approval by the Mayor, the grantees shall deposit with the Comptroller of the City the sum of two hundred and fifty dollars ($250), either in money or securities to be approved by him, for the performance of the terms and conditions of said consent. The time for the commencement and completion of the work has been fixed as November 1, 1911.

It has also been made a condition that the consent shall be null and void unless the grantees shall execute an instrument in writing accepting the terms and conditions of said consent and file the same with the Board of Estimate and Apportionment within thirty (30) days after its approval by the Mayor.

A resolution in the usual form granting the requested permission is attached hereto. Respectfully, HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, The New York, New Haven and Hartford Railroad Company, and the Harlem River and Port Chester Railroad Company have presented a petition dated May 2, 1911, to the Board of Estimate and Apportionment for its consent to the construction, maintenance and use of three (3) catenary bridges upon foundations on the property of The City of New York along the northerly side of West Farms road, between Adams street and Taylor street, in the Borough of The Bronx; now, therefore, be it

Resolved, That the consent of the Corporation of The City of New York be and the same is hereby given to the New York, New Haven and Hartford Railroad Company and the Harlem River and Port Chester Railroad Company, the owners of certain property on the northerly side of West Farms road, between Adams and Taylor streets, in the Borough of The Bronx, to construct, maintain and use steel foundations or base plates three (3) feet eight (8) inches in length and seventeen (17) inches in width, measured respectively parallel and at right angles to the tracks of said companies, to be set in the top of the retaining wall upon property of The City of New York along the said northerly side of West Farms road at three (3) points approximately forty-four (44) feet, two hundred and eighty-one (281) feet and five hundred and thirty-seven (537) feet, respectively, east of the intersection of the northerly line of West Farms road with the easterly line of Adams street and to erect thereon catenary bridges for the support of power wires for the exclusive use of the petitioners and for no other purpose; all as shown on the plan accompanying the application, and entitled: "N. Y., N. H. & H. R. R., Shore Line Division, Harlem River Branch Electrification, Main Line Bridge Construction. Map showing location of proposed catenary bridge foundations to be constructed in West Farms road between Rosedale avenue and White Plains road, Borough of The Bronx, to accompany application dated May 2, 1911, of the New York, New Haven and Hartford Railroad Company and the Harlem River and Port Chester Railroad Company to the Board of Estimate and Apportionment, City of New York," dated May 23, 1911, and signed by E. H. McHenry, Vice-President, and C. S. Mellen, President, and approved by Wm. T. Murray, Electrical Engineer; a copy of which is annexed hereto and made a part hereof upon the following terms and conditions:

1. Said consent shall continue only during the pleasure of the Board of Estimate and Apportionment, and shall be revocable upon sixty (60) days' notice in writing to the grantees, but in no case shall it extend beyond a term of ten (10) years from the date of its approval by the Mayor, and thereupon all rights of the grantees in said street by virtue of this consent shall cease and determine.

2. The grantees shall pay into the Treasury of The City of New York, as compensation for the privilege hereby granted, the annual sum of one hundred dollars ($100).

Such payments shall be made in advance on November 1 of each year; provided, however, that the first payment shall be made within sixty (60) days of the approval of this consent by the Mayor, and shall be only such proportion of the annual charge as the time between the approval of this consent by the Mayor and November 1 following bears to a whole year.

Such payments shall not be considered in any manner in the nature of a tax, but shall be in addition to any and all taxes of whatsoever kind or description now or hereafter required to be paid under any ordinance of The City of New York, or by any law of the State of New York.

3. Upon the revocation or termination by limitation of this consent, the grantees shall cause the structures hereby authorized to be removed, and all of said street affected by this permission to be restored to its proper and original conditon, if required so to do by The City of New York or its duly authorized representatives, and the entire cost of such work shall be borne by the said grantees. If the structures hereby authorized shall not be required to be removed, it is agreed that they shall become the property of The City of New York.

4. This consent is for the exclusive use of the grantees and shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall title thereto, or right, interest or property therein pass to or vest in any other person, firm or corporation whatsoever, either by the acts of the gantees or by operation of law, without the consent, in writing, of The City of New York, acting by the Board of Estimate and Apportionment.

5. The grantees shall pay the entire cost of all work, labor and material in connection with the structures hereby authorized, and particularly—

(*a*) Their construction, maintenance and removal.

(*b*) The protection of all structures which shall in any way be disturbed by their construction or removal.

(*c*) All changes in sewers or other subsurface structures necessitated by their construction or removal, including the laying or relaying of pipes, conduits, sewers or other structures.

(*d*) The replacing or restoring of the pavement in said street which may be disturbed during their construction or removal.

(*e*) Each and every item of the increased cost of the installation of any future structures or repairs or alterations to any existing or future structures caused by their presence in the street.

(*f*) The inspection of all work during their construction or removal as herein provided, which may be required by the President of the Borough and the Commissioner of Water Supply, Gas and Electricity.

6. Before the construction or removal shall be begun, the grantees shall obtain permits to do the work from the President of the Borough and from the Commissioner of Water Supply, Gas and Electricity. The grantees shall perform all the duties which may be imposed by those officials as conditions of such permits, provided such conditions are not inconsistent with the provisions of this consent. The grantees shall submit to those officials working plans which shall include and show in detail the method of construction of the structures hereby authorized and the mode of protection or changes in all structures required by the construction or removal of the same.

Upon the completion of the work the grantees shall furnish to the President of the Borough a plan of such character as he may direct, showing accurately and distinctly the location, size and type of construction and complete dimensions of the structures erected or installed under this consent; also the location and dimensions of all substructures encountered during the progress of the work. The depth below or above the street surface of the new structures and of the substructures encountered must be shown; also their location with reference to the nearest curb line and the nearest curb-line intersection.

7. The grantees shall allow to The City of New York a right of way through, under or above any part of the structures hereby authorized for any and all structures which are now or may be hereafter placed by The City of New York in said street.

If at any time it shall become necessary to replace or alter any structure in said street, the City shall have the right to break through or remove all or any portion of the structures hereby authorized and the grantees shall pay to the City the expense incurred by such removal.

8. The structures hereby authorized and any fixtures laid therein or erected

thereon shall be constructed, maintained and operated subject to the supervision and control of the proper authorities of The City of New York. They shall be open at all times to the inspection of all the authorities who have jurisdiction in such matters under the Charter of The City of New York.

9. This consent is subject to whatever right, title or interest the owners of abutting property or others may have in and to said street.

10. Said grantees shall be liable for all damages to persons or property, including the street and structures therein and thereunder, by reason of the construction and operation or maintenance of the structures hereby authorized, and it is a condition of this consent that The City of New York assumes no liability to either person or property on account of this consent.

11. This consent is granted on the further and express condition that all laws or ordinances now in force, or which may hereafter be adopted, shall be strictly complied with.

12. This consent is upon the express condition that within sixty (60) days after its approval by the Mayor, and before anything is done in exercise of the rights conferred hereby, the grantees shall deposit with the Comptroller of The City of New York the sum of two hundred and fifty dollars ($250), either in money or in securities to be approved by him, which fund shall be security for the performance of the terms and conditions of this consent, especially those which relate to the payment of the annual charge, the repairs of the street pavement and the removal of the structures hereby authorized. In case of default in the performance by said grantees of any of such terms and conditions, The City of New York shall have the right to cause the work to be done and the materials to be furnished for making the necessary changes or repairs, after ten (10) days' notice, and shall collect the reasonable cost thereof from the said fund without legal proceedings, or in case of default in the payment of the annual charge, shall collect the same, with interest, from such fund after ten (10) days' notice, in writing, to the said grantees.

In case of any drafts so made upon the security fund the said grantees shall, upon thirty (30) days' notice, in writing, pay to the Comptroller of The City of New York a sum of money sufficient to restore the said fund to the original amount of two hundred and fifty dollars ($250), and in default of the payment thereof, the consent hereby given may be canceled and annulled at the option of the Board of Estimate and Apportionment of The City of New York, acting on behalf of said City. No action or proceeding or rights under the provisions of this section shall affect any other legal rights, remedies or cause of action belonging to The City of New York.

13. Said grantees shall give notice, in writing, to the President of the Borough and to the Commissioner of Water Supply, Gas and Electricity of their intention to begin the work hereby authorized at least forty-eight hours before such work commences The grantees shall also give to the Board of Estimate and Apportionment notice, in writing, of the date on which the work is commenced and also the date on which the same is completed, not later than ten (10) days after such dates.

14. Said grantees shall commence the construction of the structures hereby authorized and complete the same on or before November 1, 1911, otherwise this consent shall be forfeited forthwith, and without any proceedings, either at law or otherwise, for that purpose; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

15. This consent shall be null and void unless said grantees shall duly execute an instrument in wrting, wherein said grantees shall accept this consent and shall promise, covenant and agree to conform to, abide by and perform all the terms, conditions and requirements in this consent fixed and contained and file said instruments with the Board of Estimate and Apportionment of The City of New York within thirty (30) days after the approval of this consent by the Mayor; provided, however, that such time may be extended by the Board of Estimate and Apportionment.

And said grantees shall promise, covenant and agree in said instrument to hold The City of New York harmless from all damages to persons or property which may result from the construction, use, maintenance or operation of the structures hereby authorized.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

Sulzberger & Sons Company.

In the matter of the application of Sulzberger & Sons Company for permission to maintain and use an existing spur track in Gansevoort street, west of West street, in front of West Washington Market, Borough of Manhattan.

At the meeting of June 22, 1911, this matter was referred to the Corporation Counsel to advise the Board as to its right to permit of the use of this track by the applicant.

The Secretary presented the following:

Report No. 9053.

Board of Estimate and Apportionment, The City of New York, Bureau of Franchises, Room 801, 277 Broadway, July 17, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—Sulzberger & Sons Company, successors to Schwarzschild & Sulzberger Company, has presented a petition dated May 15, 1911, to the Board of Estimate and Apportionment for permission to make use of an existing spur track in Gansevoort street, west of West street, in front of West Washington Market. The spur track in question was constructed under the authorization of a resolution adopted by the Board of Aldermen and Council on October 31, 1899, and approved by the Mayor November 3, 1899, granting permission to Adams & Co. to lay a spur from the tracks of the New York Central and Hudson River Railroad on West street to Stand 39, occupied by the grantee in West Washington Market. The track leaves the westerly main track of the railroad company in West street at a point about 188 feet south of the northerly line of Gansevoort street and runs in a westerly direction in a wide curve to a point about 48 feet east of the easterly line of Lawson avenue, in West Washington Market, at which point the northerly rail is about five feet from the north curb of Gansevoort street; thence the track extends westerly to Lawson avenue, where it is four feet from the curb, and thence still westerly parallel to the curb to a point about 47 feet east of the easterly line of 13th avenue.

From an examination on the ground it was found that Adams & Co. no longer occupies any of the stands in the market, and the track has been used for some time past without any authorization, so far as the records show by the National Packing Company, occupying stands formerly used by Adams & Co.

The petitioner is engaged in the wholesale meat business and its stands in West Washington Market have a frontage on Gansevoort street between West street and Lawson avenue. At present the dressed meat is carted in wagons from the freight yards and the use of the spur track will eliminate this carting and consequent handling of the meat. The petitioner's representative has stated the spur is to be used not over four days in any week and only one car per day will be received; the cars to be unloaded between the hours of two and five in the morning.

From an examination of other spur tracks in this vicinity it would appear that the railroad company permits many cars to remain on the spurs during the entire day. The portion of the track in front of the petitioners' stand is on the curve of the spur and the inner rail of the track at its nearest point to the said stands is twenty feet from the curb. It can thus be seen that use of the track by the petitioners whereby cars are permitted to remain standing thereon during the day will cause considerable obstruction in the roadway. The petitioners claim little public use is made of Gansevoort street west of West street, and state that cars consigned to it will be placed on the curve some distance west of the petitioners' stands, where the tracks are about seven feet from the curb, at which point the car will present the least possible obstruction to public use of the roadway. However, I can see no method of insuring that the cars will be customarily so placed.

At the meeting of the Board of Estimate and Apportionment held April 3, 1908, it was proposed to revoke the resolutions authorizing this spur and other existing spurs connecting with the New York Central and Hudson River Railroad tracks on the west side of the City, such action to be taken in accordance with an opinion of the Corporation Counsel presented to the Board the same day, wherein it was held that the resolutions authorizing the spurs were illegal. At the request of counsel for certain of the users of the said spurs, action was deferred, in order to permit of a stipulation being entered into by the Corporation Counsel under which the use of the spurs could be continued pending a final settlement of the west side track situation.

In view of the decision of the Court of Appeals in the case of Hatfield vs. Straus, that the Board had no authority under the Charter to grant to individuals the right to construct or use spur tracks in the streets, a report was presented at the meeting of the Board held June 22, 1911, recommending that the matter be referred to the Corporation Counsel to advise the Board as to its right to permit the use of the track as requested, and the matter was so referred.

The Corporation Counsel has now rendered an opinion, dated June 30, 1911, advising "that the petition of Sulzberger & Sons Company, which is an application for the right to use public streets for private purposes must be denied under the decision of Hatfield vs. Straus."

In view of this opinion, it would appear that there is no course of action open to the Board other than the denial of the requested privilege. Respectfully,

HARRY P. NICHOLS, Engineer, Chief of Bureau.

The following was offered:

Whereas, Sulzberger & Sons Company have presented a petition dated May 15, 1911, to the Board of Estimate and Apportionment for permission to make use of an existing spur track in Gansevoort street, west of West street, in front of West Washington Market; and

Whereas, In an opinion dated June 30, 1911, the office of the Corporation Counsel has advised this Board that under the decision of the courts, the application must be denied; now therefore be it

Resolved, That the hereinabove mentioned petition of Sulzberger & Sons Company be and the same is hereby denied.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

FINANCIAL MATTERS.

The following transfers of appropriations were made upon the recommendation of the Comptroller:

$500 within the appropriation made to the Department of Education for the year 1910.

Board of Education, Park Avenue and 59th Street, New York, July 13, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I have the honor to transmit herewith a certified copy of a resolution adopted by the Board of Education at a meeting held on the 12th inst., relative to the transfer of $500 within the Special School Fund for the year 1910.

Respectfully yours, A. E. PALMER, Secretary, Board of Education.

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to transfer the sum of five hundred dollars ($500) from the Special School Fund for the year 1910 and from the item contained therein entitled "General Supplies, Truant Schools, No. 1000," which item is in excess of its requirements, to the item also contained within the Special School Fund for the year 1910, entitled "Contingencies, Truant Schools, No. 1050," which item is insufficient for its purposes

A true copy of resolution adopted by the Board of Education on July 12, 1911.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 12, 1911, the Board of Education requested the transfer of $500 within the Special School Fund appropriation for the year 1910. In connection therewith I report as follows:

The proposed transfer is from General Supplies, No. 1000, Truant Schools, to Contingencies, No. 1050, Truant Schools.

The appropriation for No. 1050 was $2,756, but $500 was transferred therefrom at the request of the Board of Education. It now appears that bills in the sums of $458.97 for carfare for truant officers and $199.55 for telephone service have come in since the transfer was made, with the result that there is an apparent deficit in the account of $574.85. It is estimated that deductions on the bills for carfare, when they come up for audit in the Department of Finance, will make $500 sufficient to liquidate the account.

The balance in No. 1050 will permit of the transfer.

I recommend that the request be granted by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New

York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the Department of Education for the year 1910, as follows:

From

Special School Fund, Maintenance, General Supplies—
1000. Truant Schools $500 00

To

Special School Fund, Maintenance, Contingencies—
1050. Truant Schools $500 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

$1,000 within the appropriation made to the Department of Street Cleaning for year 1911.

Department of Street Cleaning of The City of New York, 13-21 Park Row, New York, July 7, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—I have to request that a transfer amounting to the sum of one thousand dollars ($1,000) be made within the appropriation allowed the Department of Street Cleaning for the year 1911, as follows:

From

Administration, Borough of The Bronx—
959. Removal of Snow and Ice.. $1,000 00

To

Administration, Borough of Manhattan—
909. Removal of Snow and Ice.. $1,000 00

The reason for the above transfer is to enable me to liquidate outstanding liabilities amounting to the sum of $241.86 for the removal of snow and ice in the Borough of Manhattan during the past winter, and also to have a small balance in this account so that I may be able to certify to contracts for the removal of snow and ice in the Borough of Manhattan for the seasons of 1911 and 1912.

Respectfully, WM. H. EDWARDS, Commissioner of Street Cleaning.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Commissioner of the Department of Street Cleaning, under date of July 7, 1911, for a transfer of $1,000 within appropriations to the Department for the year 1911, I report as follows:

The proposed transfer is from No. 959, Administration, Borough of The Bronx, Removal of Snow and Ice, to No. 909, Administration, Borough of Manhattan, Removal of Snow and Ice. The Commissioner states that the transfer is necessary to enable him to liquidate outstanding liabilities in the sum of $241.86 in No. 909, and to leave a small balance in the account so that he may be able to certify to contracts for the seasons of 1911 and 1912.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the Department of Street Cleaning for the year 1911, as follows:

Department of Street Cleaning.

From

Administration, Borough of The Bronx—
959. Removal of Snow and Ice.. $1,000 00

To

Administration, Borough of Manhattan—
909. Removal of Snow and Ice.. $1,000 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs

of Brooklyn and The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

$1,000 from Account 1810 to Account 1816, supporting the appropriations made to the office of the President of the Borough of Brooklyn for the year 1911.

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, July 30, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—I would respectfully request that your honorable Board adopt a resolution transferring the sum of one thousand dollars ($1,000) from Account 1810, Repairs and Replacements by Contract or Open Order, to Account 1816, Contingencies.

The balance in Account 1816 is not sufficient for the needs of this Department for the remainder of the year, whereas Account 1810 has a large surplus.

I would thank you to give this matter your early consideration.

Respectfully, ALFRED E. STEERS, President, Borough of Brooklyn.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 30, 1911, the President of the Borough of Brooklyn requested the transfer of $1,000 within appropriations to the Bureau of Public Buildings and Offices in his office for the year 1911.

The proposed transfer is from No. 1810, Repairs and Replacements by Contract or Open Order, to No. 1816, Contingencies.

The appropriation for No. 1816 was $1,000. The expenditures are stated to be as follows:

Compensation of emergency help	$583 75
Carfares	200 00
Stamps	108 00
	$891 75

There are bills now due amounting to $300. The $1,000 is stated to be necessary to cover the deficit in the account and to provide for emergency Firemen, Telephone Operators and general expenses for the rest of the year.

There is sufficient balance in No. 1810 for the transfer.

The attached resolution, if adopted, will grant request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the transfer of funds appropriated to the office of the President of the Borough of Brooklyn, for the year 1911, as follows:

From

Bureau of Public Buildings and Offices, Maintenance—

1810. Repairs and Replacements by Contract or Open Order	$1,000 00

To

Bureau of Public Buildings and Offices, Maintenance—

1816. Contingencies	$1,000 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

$750 within appropriations to the Department of Health for the year 1910.

Department of Health, City of New York, Southwest Corner 55th Street and 6th Avenue, Borough of Manhattan, Office of the Secretary, New York, July 20, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment,* 277 Broadway:

Sir—At a meeting of the Board of Health of the Department of Health, held July 18, 1911, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to transfer the sum of $750 from the appropriation made to the Department of Health for the year 1910, entitled and as follows:

Code 265—Administration, Division of the Chief Clerk, Contingencies,

—the same being in excess of the amount required for the purposes thereof, to the appropriation made to the same Department for the same year entitled:

Code 264—Administration, Division of the Chief Clerk, Telephone Service, —the amount of said appropriation being insufficient.

A true copy. EUGENE W. SCHEFFER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 18, 1911, the Board of Health requested the transfer of $750 within appropriations to the Department of Health for the year 1910. In connection therewith, I report as follows:

The credit transfer is to cover a deficit of $750 in No. 264, Administration, Division of the Chief Clerk, Telephone Service. The debit account is No. 265, Administration, Division of the Chief Clerk, Contingencies.

The following table covers the two accounts:

264.	Appropriation, 1910	$20,000 00
	Refunds	1,265 00
	Total available	$21,265 00
	Expended to July 25, 1911	20,221 05
		$1,043 95
	Bills outstanding	1,786 79
	Deficit	$742 84
	Credit transfer requested	750 00
265.	Appropriation, 1910	$8,000 00
	Expended to July 25, 1911	7,184 60
	Balance	$815 40

I recommend that the request be granted by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Department of Health for the year 1910, as follows:

From

265.	Administration, Division of the Chief Clerk, Contingencies	$750 00

To

264.	Administration, Division of the Chief Clerk, Telephone Service	$750 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communications (3) from the Comptroller, relative to issue of corporate stock, as follows:

A—$9,740 for the payment of costs and expenses, as taxed by a Justice of the Supreme Court, in the matter of acquiring title to certain lands in the block bounded by Avenue A and 1st avenue, 59th and 60th streets, and in the block bounded by 1st and 2d avenues, 59th and 60th streets, Manhattan, for the Manhattan approach to the Queensboro Bridge.

City of New York, Department of Finance, Comptroller's Office, July 24, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—I have been advised by the Corporation Counsel that bill of costs and expenses, in the matter of acquiring title by The City of New York, to certain lands and premises situated in the block bounded by Avenue A and 1st avenue, 59th and 60th streets, and in the block bounded by 1st and 2d avenues, 59th and 60th streets, in the Borough of Manhattan, duly selected for bridge purposes, according to law, have been taxed by a Justice of the Supreme Court, under dates of July 7 and 10, in favor of the Commissioners of Estimate and Appraisal, amounting in the aggregate to the sum of nine thousand seven hundred and forty dollars ($9,740).

To provide means for the payment of these obligations, corporate stock to the amount of nine thousand seven hundred and forty dollars ($9,740) should be issued, pursuant to the provisions of section 47 of the Greater New York Charter.

A resolution for that purpose is herewith submitted.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding nine thousand seven hundred and forty dollars ($9,740), for the purpose of providing means for the payment of the costs and expenses, as taxed by a Justice of the Supreme Court, under dates of July 7 and 10, 1911, respectively, in the matter of acquiring title to certain lands in the block bounded by Avenue A and 1st avenue, 59th and 60th streets, and in the block bounded by 1st and 2d avenues, 59th and 60th streets, in the Borough of Manhattan, duly selected for bridge purposes, according to law, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding nine thousand seven hundred and forty dollars ($9,740), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

—

B—$58,228.82, to replenish the Fund for Street and Park Openings in the matter of extending Clasons Point road from Westchester avenue to the East River.

City of New York, Department of Finance, Comptroller's Office, July 24, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—I have been advised by the Corporation Counsel that the supplemental and amended report of the Commissioners of Estimate and Assessment, in the matter of opening and extending Clasons Point road, from Westchester avenue to the East River, on Long Island Sound, in the 24th Ward, Borough of The Bronx, was confirmed by an order of the Supreme Court, dated June 12, 1911, and entered in the office of the Clerk of the County of New York June 17, 1911.

The title to the lands, etc., taken in this proceeding became vested in The City of New York on August 1, 1906, pursuant to the provisions of a resolution of the Board of Estimate and Apportionment, adopted June 15, 1906.

The total amount of the award is	$245,550 47
Amount of taxed costs	18,412 13
Amount of additional taxed costs	713 85
Total	$264,676 45

Pursuant to the provisions of a resolution of the Board of Estimate and Apportionment, adopted April 14, 1905, twenty-two per cent. (22%) of the entire cost and expense of this proceeding is to be borne and paid by The City of New York, for which corporate stock to the amount of fifty-eight thousand two hundred and twenty-eight dollars and eighty-two cents ($58,228.82) should be issued.

A resolution for that purpose is herewith submitted.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 174 of the Greater New York Charter, the Comptroller be and hereby is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to the amount of fifty-eight thousand two hundred and twenty-eight dollars and eighty-two cents ($58,228.82), the proceeds whereof to be applied to replenish the "Fund for Street and Park Openings" for this amount to be paid therefrom, in the proceeding to open and extened Clason's Point road from Westchester avenue to the East River, or Long Island Sound, in the Twenty-fourth Ward, Borough of The Bronx, pursuant to the provision of a resolution of the Board of Estimate and Apportionment, adopted April 14, 1905.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs

of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

C—$2,455.14 for bill of costs and expenses of the Commissioners of Estimate and Assessment in the proceeding to acquire title to certain pieces or parcels of land for the bridge over the Harlem River and approaches thereto between 125th street and 1st avenue and 134th street and Willis avenue.

City of New York, Department of Finance, Comptroller's Office, July 24, 1911.

To the Honorable, the Board of Estimate and Apportionment£

Gentlemen—I have been advised by the Corporation Counsel, under date of July 17, 1911, that a bill of costs and expenses of the Commissioners of Estimate and Assessment has been taxed by a Justice of the Supreme Court, under date of July 10, 1911, at the sum of two thousand four hundred and fifty-five dollars and fourteen cents ($2,455.14), in the proceeding to acquire title in fee to certain pieces or parcels of land between East 125th street and 1st avenue and the Harbor Commissioners' line of the Harlem River, and between the southerly line of 132d street and Willis avenue and the southerly line of 134th street and Willis avenue, and to a right of way or easement between the United States pierhead line of the Harlem River and 132d street at Willis avenue, for the construction of a bridge over the Harlem River and the approaches thereto between 125th street and 1st avenue and 134th street and Willis avenue, pursuant to the provisions of chapter 147 of the Laws of 1894.

To provide means to pay the amount of this bill of costs and expenses, corporate stock should be issued under the authority of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904.

A resolution for that purpose is herewith submitted.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended by chapter 409 of the Laws of 1904, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding two thousand four hundred and fifty-five dollars and fourteen cents ($2,455.14), to provide means for the payment of the bill of costs and expenses of the Commissioners of Estimate and Assessment as taxed by a Justice of the Supreme Court, under date of July 10, 1911, in the proceeding to acquire title in fee to certain pieces or parcels of land between East 125th street and 1st avenue and the Harbor Commissioners' Line of the Harlem River, and between the southerly line of 132d street and Willis avenue, and the southerly line of 134th street and Willis avenue, and to a right of way or easement between the United States Pierhead Line of the Harlem River and 132d street at Willis avenue, for the construction of a bridge over the Harlem River and the approaches thereto between 125th street and 1st avenue and 134th street and Willis avenue, pursuant to the provisions of chapter 147 of the Laws of 1894, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding two thousand four hundred and fifty-five dollars and fourteen cents ($2,455.14), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a resolution of the Board of Aldermen requesting that the salary of the First Deputy City Clerk be increased from $5,000 to $6,000 per annum.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

The Secretary presented the following communication from the Corporation Counsel in response to communication from the Secretary of the Board, dated July 19, 1911, asking information in relation to the present status of the action entitled "Amsterdam Electric Light, Heat and Power Company, and Edison Electric Illuminating Company of Brooklyn, Plaintiffs, against William J. Gaynor, as Mayor of The City of New York et al., etc., Defendants."

Which was ordered printed in the minutes, placed on file and the Secretary directed to transmit a copy thereof and a copy of the report of the Commissioner of Water Supply, Gas and Electricity, to the South Side Board of Trade of Brooklyn.

(On June 22, 1911, a petition was presented to the Board from the South Side Board of Trade of Brooklyn in regard to the validity of the franchise of the Edison Electric Illuminating Company in so far as it affects their operation in the Thirtieth Ward of Brooklyn, and recommending that a municipal light and power plant be constructed and operated in said ward in view of the excessive rates charged by said company to the City, as well as private consumers, which was referred to the Commissioner of Water Supply, Gas and Electricty.)

(On July 13, 1911, the report of the Commissioner of Water Supply, Gas and Electricity was presented, stating that for obvious reasons a municipal plant would not be successful, but that it would be wise, perhaps, to instruct the Corporation Counsel to draft and present to the Legislature a bill amending the Laws of 1905 by fixing the rate for electric light current the same as in the Boroughs of Manhattan and The Bronx, and the Secretary was directed to request the Corporation Counsel to advise the Board in regard to the present status of the above action.)

City of New York, Law Department, Office of the Corporation Counsel, New York, July 24, 1911.

Board of Estimate and Apportionment of The City of New York:

Sirs—I am in receipt of your communication dated July 19, 1911, asking information in relation to the present status of the action entitled "Amsterdam Electric Light, Heat and Power Company, and Edison Electric Illuminating Company of Brooklyn, Plaintiffs, against William J. Gaynor, as Mayor of The City of New York, et al., etc., Defendants." In reply I beg to say:

On March 17, 1911, a motion to make the temporary injunction, restraining the Board from taking any action to rescind the franchise heretofore granted to the Amsterdam Company, permanent during the pendency of the action, came up for argument and was granted. The case came on for trial on the 10th day of April, 1911. The defendants appeared by the Corporation Counsel and answered: "Ready." The plaintiffs, however, submitted an affidavit to the court stating at great length their inability to proceed with the trial of the case, for the reason that Judge Hatch, a member of the firm of Parker, Hatch & Sheehan, attorneys of record for the plaintiffs, who had special charge of the action on behalf of plaintiffs and was to try the same, was then seriously ill and unable to attend at court,, and thereupon the court adjourned the trial of the action to the 8th day of May, 1911. When the case was then reached the Corporation Counsel was ready and anxious to proceed with the trial, and again a similar affidavit was submitted by plaintiffs' attorneys. The court thereupon adjourned the trial of the action to May 22, 1911. On that date the Corporation Counsel attended and announced his readiness and desire to try the action, but at the request of the plaintiffs, and on submission of an affidavit showing that Judge Hatch had not recovered, the case was passed for the day. On May 23, the plaintiffs submitted an affidavit showing that Judge Hatch was seriously ill, and on that account the action was adjourned to June 12, 1911. On that day, the Corporation Counsel was once more in court, and ready to try this case, and so answered the call. The plaintiffs, however, asked the court for an adjournment on the plea that Judge Hatch was still dangerously ill and that he was the only person in the firm of Parker, Hatch & Sheehan who understood the facts in the case, and the court on this representation adjourned the trial of the action to October 16, 1911, when the Corporation Counsel expects that the same will be tried.

From all of which it will clearly appear the delay in the trial of this action has not been caused through any fault or neglect on the part of the Law Department.

Respectfully, G. L. STERLING, Acting Corporation Counsel.

The Secretary presented communications as follows:

From the President of the State Board of Charities, enclosing copy of report upon the conditions and needs of the Department of Public Charities of The City of New York, for consideration in connection with the appropriation to be made to said Department for the year 1912 for maintenance and improvements;

From the Central Labor Union of Brooklyn, requesting that appropriations be granted the various City Departments in the Budget for 1912 to permit the granting of a two weeks' vacation to per diem employees.

Which were referred to the Budget Committee, consisting of the Comptroller, the President of the Borough of Manhattan and the President of the Board of Aldermen.

The Secretary presented a communication from the Claremont Heights Property Owners' Association of the Borough of The Bronx, favoring the petition of the members of the New York Fire Department for increases in salaries.

Which was referred to the Committee on Standardization of Salaries and Grades, consisting of the Comptroller, the President of the Borough of Manhattan and the President of the Borough of Brooklyn.

The Secretary presented a communication from the Building Trades Council of New York, the Brooklyn Central Labor Union and the Socialist Party of New York County, requesting a hearing upon the question of incorporating in the new subway contracts a provision for the protection of the workingmen to be employed in construction, operation and maintenance.

Which was laid over one week—August 3, 1911.

(On June 29, 1911, a similar communication was presented to the Board and referred to the Public Service Commission.)

The Secretary presented communications (3) relative to additional rapid transit railways, etc., as follows:

From the Brooklyn League, expressing appreciation, as citizens of Brooklyn, of the great services rendered the City by the able handling by the Board of the transit question and calling attention to the imperative need that the Pineapple street tunnel be speedily constructed;

From the West End Citizens' League of the Borough of Queens, favoring the extension of the Cypress Hills L road, from Cypress Hills to Jamaica;

From Albert L. Leubuscher, of Water Mill, New York, submitting plan for financing the construction, etc., of new subways.

Which were referred to the Committee of the Whole.

The Secretary presented the following communication from the Commissioner of Water Supply, Gas and Electricity, submitting specifications for flaming arc lamps to be installed where deemed advisable in public buildings of the City, together with a report of the Comptroller and the Chief Engineer of the Board, to whom, on June 15, 1911, this matter was referred, relative thereto:

(On July 6, July 13 and again on July 20, 1911, the above matter was laid over for one week.)

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 12, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment,* 299 Broadway, New York:

Gentlemen—I herewith submit draft of specifications for flaming arc lamps for use where deemed advisable in Public Buildings of this City. These specifications are submitted under Clause 1554 of the Charter, requiring that patented articles can not be purchased except when approved by the Board of Estimate and Apportionment, so that proper competition can be obtained.

There are a considerable number of types of flaming arc lamps. During 1909 we had a test made by Columbia University of the different kinds of lamps, so far as we could get them submitted at that time. A further test was made on the suggestion of the Finance Department, which has just terminated and the report of Columbia University on that test is transmitted herewith, and the lamps recommended by them have been given as the standard in the specifications submitted.

In case bids are made on lamps other than the types given, sample lamps must be submitted to Columbia for test and certification that they are equal to the style of lamps recommended by the University.

It would seem that this would provide ample protection to the City in the form of competition, and yet avoid the purchase of apparatus which would not be as serviceable as the lamps already tested under trial.

I would suggest that this report be forwarded to the Comptroller and the Chief Engineer of the Board of Estimate and Apportionment for consideration.

I am, Respectfully yours, HENRY S. THOMPSON, Commissioner.

Draft of Specifications for Obtaining Bids on Flaming Arc Lamps for Use in Certain Public Buildings.

The installation of work and material under this contract is for a complete equipment of..............................Flaming Arc Lamps in the............ ....Borough of .... such installation to include all wiring and control for the arc lamps or changes in the present wiring for same, etc., as may be required.

All work to be in accordance with the rules of the Bureau of Electrical Inspection of the Department of Water Supply, Gas and Electricity, and the New York

Board of Fire Underwriters. The number, kind, arrangement and type of lamps to be in accordance with the plans submitted to and approved by the Bureau of Lamps and Lighting of the Department of Water Supply, Gas and Electricity.

The entire work to be subject to the inspection and final approval of the Chief Engineer of Light and Power in charge of the above mentioned Bureaus.

The specifications and approved plans to be taken together as one, and what is shown on plans or mentioned in specifications is to be construed as supplementing each other and both taken together to include all the requirements of this work.

Any question of interpretation of said plans and specifications is to be referred to the Chief Engineer of Light and Power for settlement, and his decision to be accepted as final.

LAMPS.

Direct Current.

The D. C. lamps shall be of the clock feed type with regulation, workmanship and construction equal to the Excello, Polar, Aurola or Alba lamps.

Alternating Current.

The A. C. lamps shall be of the clock or motor feed type. If clock feed, they shall be equal in regulation, workmanship and construction to the Excello or Polar lamps. If motor feed, shall be equal in regulation, workmanship and construction to the Alba lamp.

The above lamps have been approved by Columbia University and if bids are made on other lamps, bidders will be required to submit sample lamps for test by the University, as to their conforming to above requirements.

Current.

Lamps are to operate two in series across a 115-volt circuit with proper resistance or reactance. The current and pressure supplied at various buildings to be tested and given by the Chief Engineer of Light and Power, and the lamps to be built and adjusted for this current supply with the variations in regulation noted.

Direct or Alternating Current.

Lamps to be supplied for Direct or Alternating current and so connected that sets of two each burn across each side of a 3-wire system, as ordered by the Chief Engineer of Light and Power, and adjusted for the voltage and regulation described for each installation.

Color of Light.

The lamps to be supplied with carbons for either yellow or white light, as required.

Equipment of Lamps.

With each lamp, all necessary parts, outer and inner globes, reflectors, regulating devices, resistants, reactive coils, economizers and twenty-five (25) pairs of carbons to be supplied.

Carbons.

The carbons to be used with these lamps to be of best grade carbons, as approved after trial by the Chief Engineer of Light and Power. It is important in the maintenance of these lamps that the proper carbons, resistances, reactive coils, outer and inner globes, etc., be used, in order to get the best effect from them.

Life Per Trim.

All carbons are to be of such length as to burn not less than seventeen (17) hours per trim.

Board of Estimate and Apportionment, City of New York, June 30, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—At the meeting of the Board held on June 15, 1911, a communication was submitted by the Commissioner of Water Supply, Gas and Electricity forwarding to the Board a draft of specifications for flaming arc lamps for use where deemed advisable in public buildings of the City, which communication and accompanying specifications were referred to the Comptroller and the Chief Engineer of the Board for consideration and report.

The Commissioner of Water Supply states that these specifications are submitted under the provisions of section 1554 of the Charter, for the reason that all flaming arc lamps are patented.

As to the question of patented articles, we would call the attention of the Board to the fact that all lamps of this kind now on the market are patented, and inasmuch as the specifications designate four (4) separate direct current lamps and three (3) separate alternating current lamps as standards, we feel confident that the "fair and reasonable opportunity for competition" required by the Charter will be afforded.

The Commissioner of Water Supply has had exhaustive tests of the various types of flaming arc lamps now on the market made by the Electrical Testing Department of Columbia University, and a voluminous report of the results of these tests has been submitted to your Committee.

The specifications now presented provide that the direct current lamps shall be "equal in uniformity of regulation, continuous and steady illumination, current consumption, durability, workmanship and construction" to the four (4) lamps reported by Columbia University as giving the most satisfactory results, while lamps using an alternating current shall be equal in the same respects to the three lamps similarly reported as having been most satisfactory. The specifications further provide that if bids are submitted on other lamps than those named as standard, "bidders will be required to submit sample lamps for test by the University as to their conforming to above requirements."

As stated in the communication, these lamps are for use where deemed advisable in public buildings, and we are informed that the two buildings under immediate consideration are the Seventh Regiment Armory, where arc lamps of the old type which were furnished by the Regiment years ago, are worn out and must be replaced, and also in the new Twenty-second Regiment Armory now approaching completion.

The lamps have far greater illuminating power than the ordinary type of arc lamps, and while the first cost per lamp is greater, the reduction in the number of lamps required is expected to effect a substantial saving.

At the suggestion of the Committee some modifications have been made in the specifications as originally submitted, the foregoing comments and quotations referring to the specifications as so amended.

We believe that the policy of having these tests made by Columbia University is a wise one, and that the results of such tests can be accepted as accurate and unprejudiced. We believe also that the specifications in their present modified form, while designed to furnish the best lamps available, will leave the field open for any bidders who can furnish lamps of first class efficiency and reliability.

We would recommend the approval of the specifications in their present form.

Respectfully,

WM. A. PRENDERGAST, Comptroller; NELSON P. LEWIS, Chief Engineer, Board of Estimate and Apportionment.

The President of the Borough of Manhattan submitted the following amendment to the specifications presented by the Department of Water Supply, Gas and Electricity:

The second paragraph, under the caption, "Alternating Current," to read:

"The above lamps have been approved after test by Columbia University and when bids are made on other lamps, bidders will be required to submit sample lamps for test by the University, as to the conforming to the above requirements."

The amendment was accepted and the following was offered:

Whereas, the Commissioner of Water Supply, Gas and Electricity has presented to this Board specifications for furnishing to the City of New York, Flaming Arc Lamps to be installed where deemed advisable in public buildings in the City; and

Whereas, All of the Flaming Arc Lamps are patented; and

Whereas, The specifications designate as standards four (4) separate lamps using a direct current and three (3) separate lamps using an alternating current; and

Whereas, in the judgment of the Board of Estimate and Apportionment the specifications as presented afford competition between four (4) direct current lamps and three (3) alternating current lamps, giving thereby a just and reasonable opportunity for competition as required by section 1554 of the Charter; therefore, be it

Resolved, That the Commissioner of Water Supply, Gas and Electricity be and he hereby is authorized to advertise for bids for furnishing Flaming Arc Lamps for use where deemed advisable in public buildings in New York City, in accordance with the specification submitted by the said Commission to the Board of Estimate and Apportionment on June 15, 1911, as amended.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Committee, consisting of the Comptroller and the Chief Engineer of the Board, to whom was referred on October 21, 1910, a communication from the Commissioner of Water Supply, Gas and Electricity relative to the acquisition of private water companies, in which he recommended that a special appropriation be made to conduct an investigation to determine the value of the private companies, etc.; also a communication from the Commissioner of Water Supply, Gas and Electricity, referring to the above report.

Which were laid over until the fall.

(On July 6, July 13, and again on July 20, 1911, the above matter was laid over for one week.)

The Secretary presented the following report of the Comptroller relative to increases in salaries of employees paid out of non-budgetary accounts, and recommending the adoption of the following resolutions:

1. That the rates of salaries and wages of employees to be paid out of other than tax budget accounts or budgetary part account, shall be fixed annually at the time of the adoption of the corporate stock budget, and that any salary or wage increase except those required by the prevailing rate of wage law, shall be limited within the succeeding twelve months to the annual rate then fixed, on the same principle which is now operative with regard to salary increases of employees paid out of the annual tax budget.

2. That, in the instances where schedules of employees are required for corporate stock or other work authorized in the intervals between corporate stock budgets, the rates fixed by such schedules must not be exceeded until action thereon at the next succeeding corporate stock budget period.

(On July 17, the above matter was laid over to July 27, 1911.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics July 14 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In a communication to this Board, under date of May 4, 1911, the President of the Borough of The Bronx objects to the ruling of the Comptroller with reference to sundry increases in schedules of employees paid out of corporate stock or in part or in whole out of non-tax Budget appropriations.

The principle set down by the Comptroller in his attempt to maintain a control over the increase in the cost of government due to salary increase of employees, was that these increases should be treated in the same way as those of employees paid entirely out of the Tax Budget accounts, namely, that the salaries fixed at the opening of the account should not be changed until the next annual budgetary part-allowance schedules in the Budget or the modifications which would come with the annual Corporate Stock Budget.

The practice as fixed by the resolutions accompanying the Tax Budget do not permit of any salary increases in the intervals between budgets, except where a corresponding decrease in rate is shown to offset the proposed increase. This practice, since its establishment in the Budget of The City of New York, at the lowest estimate, saved the City from one-half to one million dollars annually.

I believe the Board of Estimate and Apportionment should adopt the same rule with regard to salaries paid out of non-budgetary account as is followed in the Budget, namely, that the rate of cost due to salary increases should not be increased oftener than once a year, namely, at the budget-making time, whether Corporate Stock or Tax Budget, but that if the Department can, through economies or through the distribution of one man's work among others and the elimination of that position, provide the necessary funds, these increases should be allowed within reason.

The President of the Borough of The Bronx, in the letter under consideration, says:

"According to this line of reasoning (referring to the Comptroller's report), the number of employees and the appropriations for salaries would remain constant. It is based on the assumption that there will be no increase in the amount of work required to be done, which is inconsistent with the rapid development of the City."

I do not agree with this conclusion. There is no question about the allowance of an increased force where increased work is to be done, and that the Comptroller has consistently favored in his reports, but an increase of City employees' salaries is not necessarily called for by "the rapid development of the City." It may or may not be helpful in Departmental work.

It would seem to me sufficient if the City employees had their opportunity for salary increases once a year. It certainly seems unfair that the opportunity for salary increases among certain classes of employees should be limited to once a year, and adopt the principle that employees paid out of other kinds of accounts shall be increased at will upon the request of the Department head.

I therefore recommend the adoption of the resolutions which I submit herewith.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the rates of salaries and wages of employees to be paid out of other than Tax Budget account or budgetary part account, shall be fixed annually at the time of the adoption of the Corporate Stock Budget, and that any salary or wage increase, except those required by the prevailing rate of wages law, shall be limited within the succeeding twelve months to the annual rate then fixed, on the same principle which is now operative with regard to salary increases of employees paid out of the annual Tax Budget.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That in instances where schedules of employees are required for corporate stock or other work authorized in the intervals between Corporate Stock budgets, the rates fixed by such schedules must not be exceeded until action thereon at the next succeeding Corporate Stock Budget period.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Municipal Civil Service Commission requesting, and report of the Comptroller recommending the modification of Salary Schedule 1331, supporting the appropriation made in the Budget for the year 1911, for said Commission, providing for the elimination of a Stenographer and Typewriter at $900 per annum and the addition of a Clerk at $300 per annum:

Municipal Civil Service Commission of the City of New York, 299 Broadway, 11th Floor, New York, July 11, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller of The City of New York:*

Sir—The Municipal Civil Service Commission hereby respectfully requests that its salary schedule be amended to read as follows::

President	$6,000 00
Commissioners, 2 at $5,000	10,000 00
Secretary	5,000 00
Assistant Secretary	4,000 00
Labor Clerk	3,500 00
Chief Clerk	3,000 00
Clerk	2,400 00
Clerks, 3 at $2,100	6,300 00
Clerks, 3 at $1,800	5,400 00
Clerks, 2 at $1,650	3,300 00
Clerks, 2 at $1,500	3,000 00
Clerk	1,350 00
Clerks, 3 at $1,200	3,600 00
Clerks, 2 at $1,050	2,100 00
Clerks, 2 at $900	1,800 00
Clerks, 3 at $750	2,250 00
Clerks, 4 at $600	2,400 00
Clerks, 3 at $540	1,620 00
Clerks, 3 at $480	1,440 00
Clerks, 3 at $300	900 00
Stenographers and Typewriters, 3 at $1,500	4,500 00
Stenographers and Typewriters, 2 at $1,350	2,700 00
Stenographers and Typewriters, 2 at $1,200	2,400 00
Stenographer and Typewriter	750 00
Telephone Operator	1,050 00
Chief Examiner	4,200 00

Assistant Chief Examiners, 2 at $3,500	7,000 00
Medical Examiner	2,400 00
Examiners, 3 at $2,700	8,100 00
Examiners, 3 at $2,400	7,200 00
Examiners, 4 at $2,100	8,400 00
Examiners, 2 at $1,800	3,600 00
	$121,660 00

The balance of $600 is to remain unassigned pending the establishment of the necessary grades by the Board of Estimate and Apportionment to readjust the office force. Yours respectfully, F. A. SPENCER, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 11, 1911, the Municipal Civil Service Commission requested modification of the salary schedule for their office for the year of 1911. In connection therewith I report as follows:

The only change involved is the striking out of a Stenographer and Typewriter at $900 per annum, and the adding of a Clerk at $300, the balance of $600 to be scheduled as unassigned.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1331.	Clerks, 3 at $300 per annum..	......	$300 00	......	$150 00
	Stenographer and Typewriter, 1 at $900	$900 00	......	$450 00	......
	Unassigned balance	......	600 00	......	300 00
		$900 00	$900 00	$450 00	$450 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Municipal Civil Service Commission for the year 1911, as follows:

Municipal Civil Service Commission.

Administration—

1331. Salaries:

President	$6,000 00
Commissioners, 2 at $5,000	10,000 00
Secretary	5,000 00
Assistant Secretary	4,000 00
Labor Clerk	3,500 00
Chief Clerk	3,000 00
Clerk	2,400 00
Clerks, 3 at $2,100	6,300 00
Clerks, 3 at $1,800	5,400 00
Clerks, 2 at $1,650	3,300 00
Clerks, 2 at $1,500	3,000 00
Clerk	1,350 00
Clerks, 3 at $1,200	3,600 00
Clerks, 2 at $1,050	2,100 00
Clerks, 2 at $900	1,800 00
Clerks, 3 at $750	2,250 00
Clerks, 4 at $600	2,400 00
Clerks, 3 at $540	1,620 00
Clerks, 3 at $480	1,440 00
Clerks, 3 at $300	900 00
Stenographers and Typewriters, 3 at $1,500	4,500 00
Stenographers and Typewriters, 2 at $1,350	2,700 00
Stenographers and Typewriters, 2 at $1,200	2,400 00
Stenographer and Typewriter	750 00
Telephone Operator	1,050 00
Chief Examiner	4,200 00

Assistant Chief Examiners, 2 at $3,500	7,000 00
Medical Examiner	2,400 00
Examiners, 3 at $2,700	8,100 00
Examiners, 3 at $2,400	7,200 00
Examiners, 4 at $2,100	8,400 00
Examiners, 2 at $1,800	3,600 00
Unassigned balance	600 00
	$122,260 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of Comptroller relative to, the modification of Salary Schedule 515, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for an increase in the salary of the Chief Clerk, Bureau of Water Register, from $1,800 to $2,100 per annum, of a Clerk in charge of the Inspection Division from $1,800 to $2,100 per annum, of a Clerk in charge of the Meter Setting Division from $1,500 to $1,650 per annum, and a Telephone Operator from $900 to $1,050 per annum, said modification to be effective as of July 1, 1911:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, July 15, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—On account of the lack of a sufficient surplus in the appropriate salary account I have been unable until now to reward with an increase in salary some of the more deserving ones in the Bureau of Water Register, Borough of Manhattan. There are now, however, some vacancies which it is not necessary to fill, and by using the money set aside for these positions the promotions may be made. They are as follows:

2 Clerks in charge of divisions	from $1,800 each to $2,100 each
1 Clerk in charge of a Division	from $1,500 to $1,650
1 Telephone Operator	from $900 to $1,050

A total of $900.

To accomplish this a modification of the supporting salary schedule is required, and I therefore request that you present, with your approval, to the Board of Estimate and Apportionment the enclosed modification of schedule supporting Account 515 of 1910 entitled, "Water Supply, Boroughs of Manhattan and The Bronx, Distribution, Water Registration, Permits and Revenue Collections, Manhattan—Salaries, Regular Employees."

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 15, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the 1911 salary schedule entitled, Water Supply, Boroughs of Manhattan and The Bronx, Distribution, Water Registration, Permits and Revenue Collections, Manhattan, No. 515, Salaries, Regular Employees. In connection therewith I report as follows:

It is proposed to increase two incumbents $300 per annum each, and two incumbents $150 each.

The $900 necessary for the increases is to be provided by transfer from an unassigned balance and by dropping a Clerk at $540 per annum.

The proposed increases are for the following employees:

Thomas F. Bannon, Chief Clerk, Bureau of Water Register, from $1,800 to $2,100 per annum.

Mr. Bannon was appointed on December 18, 1902, at $800. On January 1, 1905, he was increased to $1,050; on February 1, 1907, to $1,350; on April 1, 1909, to $1,500; on March 1, 1910, to $1,650, and on May 1, 1910, to the present rate.

Charles H. Cooke, Clerk, in charge of Inspection Division, from $1,800 to $2,100 per annum.

Mr. Cooke was appointed on April 27, 1896, at $600, and increased as follows: May 14, 1897, to $800; December 1, 1901, to $900; October 1, 1903, to $1,050; March 1, 1905, to $1,200; May 1, 1906, to $1,350; April 1, 1909, to $1,500; March 1, 1910, to $1,650; May 1, 1910, to the present rate.

Leonard E. Hermes, Clerk in charge Meter Setting Division, from $1,500 to $1,650 per annum.

Mr. Hermes was transferred from the Tenement House Department on December 10, 1907, at $1,050; increased May 1, 1910, to $1,350, and on September 1, 1910, to the present rate.

John P. Heifing, Telephone Operator, from $900 to $1,050.

The incumbent was appointed on May 10, 1910, at the present rate.

The following table shows the schedule changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
515.	Clerks, 3 at $1,800	$3,600 00	....	$1,800 00	....
	Clerks, at $2,100	....	$4,200 00	....	$2,100 00
	Clerks, 7 at $1,500	1,500 00	....	750 00	....
	Clerks, 6 at $1,650	....	1,650 00	....	825 00
	Clerk	540 00	....	270 00	....
	Telephone Operator, 1 at $900	900 00	....	450 00	....
	Telephone Operator, 1 at $1,050	....	1,050 00	....	525 00
	Inspectors, 9 at $1,350	1,350 00	....	675 00	....
	Inspectors, 94 at $1,100	....	1,100 00	....	550 00
	Unassigned balance, $600	110 00	....	55 00	....
		$8,000 00	$8,000 00	$4,000 00	$4,000 00

The attached resolution, if adopted, will grant the request.

Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Water Supply, Boroughs of Manhattan and The Bronx, Distribution, Water Registration, Permits and Revenue Collections, Manhattan—

515. Salaries, Regular Employees:

Water Registrar	$6,000 00
Cashier	2,500 00
Financial Clerk	2,100 00
Financial Clerk	1,500 00
Clerk	2,250 00
Clerks, 2 at $2,100	4,200 00
Clerk	1,800 00
Clerks, 7 at $1,650	11,550 00
Clerks, 6 at $1,500	9,000 00
Clerks, 9 at $1,350	12,150 00
Clerks, 2 at $1,200	2,400 00
Clerks, 14 at $1,050	14,700 00
Clerks, 41 at $900	36,900 00
Stenographers and Typewriters, 2 at $1,200	2,400 00
Stenographers and Typewriters, 3 at $1,050	3,150 00
Typewriting Copyists, 6 at $900	5,400 00
Telephone Operator	1,050 00
Automobile Engineman	1,200 00
Draftsman	1,500 00
General Inspector	1,800 00
Inspector	1,650 00
Inspector	1,500 00
Inspectors, 8 at $1,350	10,800 00
Inspectors, 95 at $1,100	104,500 00
Unassigned balance	490 00
	$242,490 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, approval of the schedule, as revised, for said Department for the year 1911, Office of Borough Engineer, Corporate Stock and Water Revenue Force, providing for the addition of a Typewriter Copyist at $900 per annum, effective as of April 1, 1911:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 30, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—A Typewriter Copyist at $900 per annum was transferred in April to the Borough of Brooklyn with the expectation that such employment would be a temporary one. He has, however, been continued, and provision for his pay has not yet been made, and I respectfully request that the Board of Estimate and Apportionment approve the enclosed modification of the salary schedule, such modification to take effect as of April, 1911.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 30, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the 1911 schedule entitled, Administration, Office of the Borough Engineer, Salaries, Regular Employees, Corporate Stock and Revenue Force. The Commissioner states that, in April, 1911, a Typewriter Copyist at $900 per annum was transferred temporarily from the Office of the Borough Engineer, Manhattan, to the corresponding office in Brooklyn. It has since been found expedient to retain him there permanently, and it is proposed to include him in the schedule.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of April 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Administration, Office of Borough Engineer—

Salaries, Regular Employees, Corporate Stock and Water Revenue Force:

First Assistant Engineer	1 at	$4,500 00
Assistant Engineer	1 at	2,400 00
Clerk	1 at	1,650 00
Clerk	1 at	1,200 00
Clerk	1 at	900 00
Stenographer and Typewriter	1 at	1,050 00
Typewriter Copyist	1 at	900 00
Automobile Engineer	1 at	1,500 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond requesting, and report of the Comptroller recommending, the modification of Wage Schedule 1082, supporting the appropriation made to said Department for the year 1911, providing for a decrease in the number of days for Gymnasium Attendants at $4 a day, and Playground Attendants at $3 a day, and increasing the number of days for Gymnasium Attendants at $3 a day, and Playground Attendants at $2 a day:

The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, July 10, 1911.

To the Board of Estimate and Apportionment, The City of New York:

Gentlemen—In order to carry on the summer work of the playgrounds under the jurisdiction of this Department, I have the honor to request the following modification in the 1911 Budget:

From Account 1082, Line Item 1—
Gymnasium Attendants at $4.00 per day, 2,288 days, $9,152.
Transfer $3,500 to Line Item 2—
Gymnasium Attendants at $3.00 per day, 2,448 days, $7,344.
—thus changing Line Items 1 and 2 to read respectively:
Gymnasium Attendants at $4.00 per day, 1,413 days, $5,652.
Gymnasium Attendants at $3.00 per day, 3,614 2-3 days, $10,844.
Also:
From Account 1082, Line Item 3:
Playground Attendants at $3.00 per day, 3,204 days, $9,612.
Transfer $3,500 to Line Item 4—
Playground Attendants at $2.00 per day, 2,946 days, $5,892.
—thus changing Line Items 3 and 4 to read respectively:
Playground Attendants at $3.00 per day, 2,037 1-3 days, $6,112.
Playground Attendants at $2.00 per day, 4,696 days, $9,392.

Respectfully,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested modification of the 1911 wage schedule for temporary employees in the Maintenance of Playgrounds, Bath Houses and Comfort Stations. In connection therewith I report as follows:

The Commissioner states that the modification is necessary for the proper supervision of the playgrounds during the summer months. It is proposed to decrease the number of days for Gymnasium Attendants, at $4, and Playground Attendants, at $3, and increase the number of days for Gymnasium Attendants, at $3, and Playground Attendants, at $2 a day. The change will give a larger force of attendants during the busy months, without additional cost to the City, as shown in the following tables:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1082.	Gymnasium Attendants, at $4 per day (2,288 days)......	$3,500 00	....	$3,500 00	....
	Gymnasium Attendants, at $3 per day (2,448 days)......	....	$3,498 00	....	$3,498 00
	Playground Attendants, at $3 per day (3,204 days)......	3,498 00	....	3,498 00	....
	Playground Attendants, at $2 per day (2,946 days)......	....	3,500 00	....	3,500 00
		$6,998 00	$6,998 00	$6,998 00	$6,998 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised, for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1911, as follows:

Parks, Manhattan and Richmond.

Maintenance, Playgrounds, Bath House and Comfort Stations—

1082. Wages, Temporary Employees:

Gymnasium Attendants, at $4 per day (1,413 days)..............	$5,652 00
Gymnasium Attendants, at $3 per day (3,614 days)...............	10,842 00

Playground Attendants, at $3 per day (2,038 days)	6,114 00
Playground Attendants, at $2 per day (4,696 days)	9,392 00
	$32,000 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Public Charities requesting, and report of the Comptroller recommending, the modification of Schedules 712, 741 and 808-a, supporting the appropriation made in the Budget for the year 1911, for said Department by transferring the sum of $370 from Schedules 741 and 808-a to Schedule 712:

Department of Public Charities of the City of New York, Foot of East 26th Street, June 29, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—In compliance with your resolution adopted in connection with the Budget for 1911, I have the honor to submit herewith the proposed revised salaries and wages schedules which I consider necessary in order to meet the demands upon this Department in an efficient and satisfactory manner during the present year. The changes can be met by transfers from:

808-a.	Additional allowance for salaries and wages in the Department of Public Charities to be expended subject to new schedules or amendments of existing schedules on approval thereof by the Board of Estimate and Apportionment	$50,000 00
	(Balance after resolution of June 1)	500 00
	(It is requested that the full amount be transferred, otherwise our appropriation for this class will be exceeded before the end of the year owing to the emergencies that had to be met during the past winter by employing extra help for the Morgues.)	
711.	Bureau of Dependent Adults, Salaries	480 00
	(This is the amount transferred from 712 to 711 by error, in the modification of June 1. We, therefore, wish it returned to this appropriation.)	
741.	New York City Children's Hospitals and Schools, Wages, Temporary Employees	240 00
		$1,220 00

To

712.	Bureau of Dependent Adults: Wages, Temporary Employees	$1,220 00

The supporting schedules follow.

Respectfully yours, M. J. DRUMMOND, Commissioner.

Administration, Manhattan and The Bronx, Bureau of Dependent Adults, 712—Wages, Temporary Employees.

Budget as Modified June 1.		Proposed Revision.	
Hospital Helpers	$10,418 00	Hospital Helpers	$11,638 00

Institutions, Manhattan and The Bronx, New York City Children's Hospitals and Schools, 741, Wages, Temporary Employees:

Hospital Helpers	$62,320 00	Hospital Helpers	$62,080 00

Administration, Manhattan and The Bronx, Bureau of Dependent Adults, 711, Salaries:

Superintendent	$2,700 00	Superintendent	$2,700 00
Superintendent of Bureau of Domestic Relations	1,800 00	Superintendent of Bureau of Domestic Relations	1,800 00
Clerks, 2 at $1,500	3,000 00	Clerks, 2 at $1,500	3,000 00
Clerk	1,200 00	Clerk	1,200 00
Clerk	1,050 00	Clerk	1,050 00
Clerk	900 00	Clerk	900 00
Clerk	750 00	Clerk	750 00
Clerks, 2 at $600	1,200 00	Clerks, 2 at $600	1,200 00
Clerk	480 00		
Chief Examiner of Char. Insts.	1,500 00	Chief Examiner of Char. Insts.	1,500 00
Ex. of Char. Insts., 16 at $1,200.	19,200 00	Ex. of Char. Insts., 16 at $1,200.	19,200 00

Registrars of Records	1,500 00	Registrars of Records	1,500 00
Visitors, 3 at $1,000	3,000 00	Visitors, 3 at $1,000	3,000 00
Stenographer and Typewriter	1,050 00	Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	1,000 00	Stenographer and Typewriter	1,000 00
Morgue Keeper	1,050 00	Morgue Keeper	1,050 00
Morgue Keeper	600 00	Morgue Keeper	600 00
Pupil Examiner	480 00	Pupil Examiner	480 00
Office Boy	300 00	Office Boy	300 00
	$42,760 00		$42,280 00

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the Commissioner of Public Charities requested modification of four schedules supporting appropriations for salaries and wages to his Department for 1911, involving transfers aggregating $1,220. In connection therewith I report as follows:

To provide for a deficiency of $1,220 in No. 712, Wages, Temporary Employees, Bureau of Dependent Adults, Manhattan and The Bronx, it is proposed to make transfers of cash from the following accounts:

808a.	Additional allowance for salaries and wages in the Department of Public Charities, to be expended subject to new schedules or amendments of existing schedules on approval thereof by the Board of Estimate and Apportionment	$500 00
711.	Salaries, Bureau of Dependent Adults, Manhattan and The Bronx	480 00
741.	Wages, Temporary Employees, New York City Children's Hospitals and Schools	240 00
		$1,220 00

The original appropriation for No. 808a was $50,000. The amount has been reduced through modification to $500. The transfer of the $500 would permit of the use of accruals in the sum of $250, contrary to the resolutions governing the budget for 1911. The use of accruals was not permitted in previous modifications. I recommend, therefore, that this item in the request be approved to the extent of $250.

The proposed transfer of $480 from a salary to a wages appropriation is contrary to the resolutions governing the budget. The transfer of $240 from No. 741 would permit the use of $120 in accruals. I recommend, therefore, that this item in the request be approved to the extent of $120.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
712.	Hospital Helpers	....	$740 00	....	$370 00
741.	Hospital Helpers	$240 00	....	$120 00	....
808a.	Additional allowance for salaries and wages in the Department of Public Charities, to be expended subject to new schedules or amendments of existing schedules upon approval thereof by the Board of Estimate and Apportionment	500 00	....	250 00	....
		$740 00	$740 00	$370 00	$370 00

I recommend the adoption of the attached resolutions approving of the transfer of $370 and the necessary modification of schedules. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Public Charities, for the year 1911. to take effect as of July 1, 1911, as follows:

Department of Public Charities.

Administration, Manhattan and The Bronx, Bureau of Dependent Adults—

712. Wages, temporary employees, Hospital Helpers	$11,158 00

Institutions, Manhattan and The Bronx, New York City Children's Hospitals and Schools—

741. Wages, temporary employees, Hospital Helpers	$62,080 00

Miscellaneous—

808a. Additional allowance for salaries and wages in the Department of Public Charities, to be expended subject to new schedules or amendments of existing schedules upon approval thereof by the Board of Estimate and Apportionment	....

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter hereby approves of the transfer of funds appropriated to the Department of Public Charities for the year 1911, to take effect as of July 1, 1911, as follows:

From

Institutions, Manhattan and The Bronx, New York City Children's Hospitals and Schools—

741. Wages, temporary employees	$120 00

Miscellaneous—

808a. Additional allowance for salaries and wages in the Department of Public Charities, to be expended subject to new schedules or amendments of existing schedules upon approval thereof by the Board of Estimate and Apportionment	$250 00

To

Administration, Manhattan and The Bronx, Bureau of Dependent Adults—

712. Wages, temporary employees	$370 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Comptroller to the Commissioner of Public Charities.

The Secretary presented the following communication from the Supervisor of the City Record reqesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 852, supporting the appropriation made in the Budget for the year 1911, for the office of said Supervisor of the City Record, providing for the elimination of an Inspector at $1,500 per annum and the addition of a Stenographer and Typewriter at $600 per annum:

The City of New York, Board of City Record, Office of the Supervisor, 13-21 Park Row, New York, July 5, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Sir—I respectfully request a modification of the schedule supporting the appropriation Budget for the year 1911, made to the Board of City Record, entitled, "Administration, 852, Salaries," by eliminating therefrom:

Inspectors, 2 at $1,500	$3,000 00
Unassigned balance, $150	150 00
	$3,150 00

—and inserting in lieu thereof:

One Inspector at $1,500	$1,500 00
One Stenographer and Typewriter	600 00
Unassigned balance	1,050 00
	$3,150 00

The request for this modification entails no additional cost to the City and is made necessary to transact the constantly increasing business in the Bureau of Supplies. Respectfully submitted,

DAVID FERGUSON, Supervisor of the City Record.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 17, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Supervisor of the City Record, under date of July 5, 1911, for modification of the 1911 schedule in his office, No. 852, Administration, Salaries, I report as follows:

It is proposed to strike out an inspector at $1,500 per annum, and add a Stenographer and Typewriter, at $600, the difference of $900 to be added to an unassigned balance. The position of Inspector has not been filled.

The Supervisor states that request is made necessary to transact the constantly increasing business in the Bureau of Supplies.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
852.	Inspectors, 2 at $1,500........	$1,500 00	....	$750 00	....
	Stenographer and Typewriter, at $600	....	$600 00	....	$300 00
	Unassigned Balance..........	....	900 00	....	450 00
		$1,500 00	$1,500 00	$750 00	$750 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Board of City Record for the year 1911, to take effect July 1st, as follows:

Board of City Record.

City of New York, Administration—

852. Salaries:

Supervisor	$5,000 00
Deputy Supervisor	2,500 00
Secretary and Chief Clerk	2,500 00
Editor	3,000 00
Stationer	2,500 00
Bookbinder	2,500 00
Inspector	1,500 00
Bookkeeper	2,550 00
Bookkeepers, 2 at $2,100	4,200 00
Examiner	1,800 00
Examiner	1,650 00
Stenographer and Book Typewriter	1,500 00
Stenographer and Book Typewriter	600 00
Stenographer and Typewriter	750 00
Stenographer and Typewriter	600 00
Book Typewriting Copyist	1,200 00
Clerks, 2 at $1,200	2,400 00
Clerk	900 00
Clerk	750 00
Clerks, 3 at $300	900 00
Storekeeper	1,800 00
Laborer	720 00
Balance unassigned	1,050 00
	$42,870 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, approval of the schedule, as revised, for the account of said Department for the year 1911, Maintenance and Distribution of Water Supply, Borough of Brooklyn, S-256, Salaries, Regular Employees, providing for the substitution of a Clerk at $540 per annum for one at $600 per annum:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 27, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In the schedule supporting account, "Maintenance and Distribution of Water Supply in the Borough of Brooklyn, 1911, Maintenance, Distribution System, Salaries, Regular Employees, S-256," provision is made for two Clerks at $600.

I would like to have that schedule line amended so as to provide for only one Clerk at $600 and one at $540 in order that I may fill a vacancy now existing by promoting a Clerk now receiving $300, and for this purpose I respectfully request that the Board of Estimate and Apportionment modify the salary schedule in accordance with the enclosed copy. Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 19, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Commissioner of Water Supply, Gas and Electricity, on June 27, 1911, for modification of the 1911 non-budgetary schedule, Maintenance and Distribution of Water Supply, in the Borough of Brooklyn, Maintenance Distribution System, S-256, Salaries, Regular Employees, I report as follows:

It is proposed to drop a Clerk at $600 per annum and substitute one at $540, the schedule to be decreased by the balance of $60.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
S-256.	Clerks, 2 at $600..........	$600 00	....	$300 00	....
	Clerk at $540..............	....	$540 00	....	$270 00
	Decrease in schedule.........	....	60 00	....	30 00
		$600 00	$600 00	$300 00	$300 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the employees of the Department of Water Supply, Gas and Electricity, paid from other than budgetary funds, for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity—Maintenance—Distribution.

Salaries, Regular Employees, Corporate Stock and Water Revenue Force:

Assistant Engineer	1 at	$3,000 00
Assistant Engineer	1 at	2,100 00
Transitman	1 at	1,650 00
Leveler	1 at	1,500 00
Leveler	1 at	1,350 00
Leveler	1 at	1,200 00
Rodman	1 at	1,050 00
Axeman	2 at	900 00
Draftsman	1 at	1,500 00
Draftsman	1 at	900 00
Clerk	1 at	1,650 00
Clerk	1 at	900 00
Clerk	1 at	750 00
Clerk	1 at	600 00
Clerk	1 at	540 00
Clerk	1 at	300 00
Stenographer and Typewriter....................................	1 at	1,200 00

Messenger	1 at	900 00
Messenger	1 at	1,200 00
Inspectors	2 at	1,100 00
Keeper	1 at	1,200 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimates of cost for the following work under the jurisdiction of the Department of Education:

Portable school buildings at Annex to Public School 32, Queens	$7,000 00
Furniture for addition to Public School 7, Queens, at an aggregate cost of	6,875 50
Portable school buildings at Annex to Public School 46, Queens	3,600 00

Board of Education, Park Avenue and 59th Street, New York, July 17, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of July 17, 1911, reading as follows:

"I am forwarding herewith plans and specifications for the following work, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment in compliance with the resolution adopted by that Board on January 5, 1911.

Queens, for the General Construction of Portable School Buildings.

	Approximate Cost.
Annex, Public School 32	$7,000 00
Annex, Public School 46	3,600 00
**Furniture for Addition to Public School 7.*	
Item 1	1,215 00
Item 2	1,256 00
Item 3	540 00
Item 4	3,864 50

(Furnished by Prison Department.)

*No plans."

The plans and specifications referred to in the foregoing communication are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 17, 1911, the Board of Education requested approval of plans, specifications and estimates of cost for the following work in the Borough of Queens:

	Approximate Cost.
General construction, etc., of portable school buildings at—	
Annex to Public School 32	$7,000 00
Annex to Public School 46	3,600 00
Furniture for addition to Public School 7—	
Item 1	1,215 00
Item 2	1,256 00
Item 3	540 00
Item 4	3,864 50

No plans were submitted for furniture for Public School 7.

An examination of the plans and specifications show that it is proposed to erect portable houses to provide four classrooms at the annex to Public School 32 and two classrooms at the annex to Public School 46, with the necessary heating, plumbing and toilet facilities, blackboards, furniture, etc. The furniture is to be taken from the storehouse of the Board of Education and set in the buildings by the contractor.

The plans and specifications are satisfactory and the estimates of cost reasonable.

The cost of the work is to be charged to the Corporate Stock Fund, "C-DE-92, Portable Buildings, Queens," approved by the Board of Estimate and Apportionment on June 3, 1910. There is a sufficient balance in the fund to pay for the work.

The specifications for furniture, when submitted, contained clauses calling for repairs to clocks, shades and slate blackboards. Upon the request of the Department of Finance, these features were eliminated by the omission of paragraph 2, under item 1, on page 7; paragraph 2, on page 10, and paragraph 6, on page 11.

Item 1 now includes new clocks, umbrella stands, dressing cabinets, screens, couches, carpets, linoleum, reading stand, medicine cabinet, fire-extinguishing apparatus, window shades and bench stops; item 2, slate blackboards; item 3, auditorium chairs; item 4, teachers' desk and chairs, tables and pupils' desks and seats.

The articles specified under item 4 are to be furnished by the State Commission on Prisons, who have given a release covering the other items. The specifications, in their present form, are satisfactory, and the estimates of cost reasonable.

The cost of the work is to be charged to Corporate Stock Fund, "C-DE-98A, Furniture for Public School 7, Borough of Queens," which was authorized by the Board of Estimate and Apportionment on January 26, 1911. There is a sufficient balance to pay the cost of the work.

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the plans, specifications and estimates of cost for the following work, under the jurisdiction of the Department of Education:

Portable school buildings at annex to Public School 32, Borough of Queens; estimated cost, seven thousand dollars ($7,000).

Portable school buildings at annex to Public School 46, Borough of Queens; estimated cost, three thousand six hundred dollars ($3,600).

Specifications, as amended, for furniture for addition to Public School 7, Borough of Queens:

Item 1; estimated cost, one thousand two hundred and fifteen dollars ($1,215).

Item 2; estimated cost, one thousand two hundred and fifty-six dollars ($1,256).

Item 3; estimated cost, five hundred and forty dollars ($540).

Item 4; estimated cost, three thousand eight hundred and sixty-four dollars and fifty cents ($3,864.50).

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Parks, Borough of The Bronx, requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($4,200) for reconstructing the shelter building in Franz Sigel Park, under the jurisdiction of said Department:

Department of Parks, Borough of The Bronx, Office of Chief Engineer, Zbrowski Mansion, Claremont Park, June 28, 1911.

Hon. William A. Prendergast, *Comptroller,* 280 Broadway, City:

Dear Sir—Pursuant to the resolution adopted by the Board of Estimate and Apportionment June 3, 1910, I submit herewith, by order of the Commissioner of Parks, for the Borough of The Bronx, plans and specifications for the following contract, the estimated cost of which is $4,200:

"For reconstructing the shelter building in Franz Sigel Park, in the Borough of The Bronx, in The City of New York." Respectfully submitted,

MARTIN SCHENCK, Chief Engineer of Parks, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Chief Engineer of Parks, for the Borough of The Bronx, requested the approval of plans, specifications and estimated cost in the sum of $4,200 for reconstructing the Shelter Building in Franz Sigel Park.

Plans and specifications and estimated cost in the sum of $4,000 for reconstructing and altering the Shelter Building were submitted for approval on May 13, 1911. For the reason that the work called for consisted mainly of repairs to the old building and was therefore a proper maintenance charge, the plans, specifications and estimate of cost were returned to the Commissioner of Parks, without the approval of the Board of Estimate and Apportionment.

The plans and specifications now submitted provide for the removal of the old Shelter Building and the erection of a new structure, 64 feet long and 32 feet wide, following closely the design of the old building. The roof is to be larger and about two feet lower than at present and open louvres are to be placed in the roof at the ends of the building instead of at the sides. Parts of the building will be constructed of heavier material than in the old.

Provision is made for the use of some of the brick piers that are now in place and also of parts of the roof trusses that are in perfect condition.

The plans and specifications appear to be complete and satisfactory and the estimate of cost reasonable.

The cost of this work is to be charged against the corporate stock fund entitled, "Reconstruction of Shelter Building in Franz Sigel Park, C-DP-327A." The available balance in the fund is sufficient for this proposed expenditure.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimate of cost, four thousand two hundred dollars ($4,200) for reconstructing the Shelter Building in Franz Sigel Park, in the Borough of The Bronx, under the jurisdiction of the Department of Parks, Borough of The Bronx.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimates of cost ($12,500 and $1,500) for installing heating and ventilating apparatus and temperature regulation in additions to and alterations in Public School 40, Borough of The Bronx:

Board of Education, Park Avenue and 59th Street, New York, July 11, 1911.

Hon. W. A. PRENDERGAST, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of July 10, 1911, reading as follows:

"I am forwarding herewith plans and specifications for Item 1, installing heating and ventilating apparatus, and Item 2, installing temperature regulation in additions to and alterations in Public School 40, Borough of The Bronx, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment, in compliance with the resolution adopted by that Board on January 5, 1911.

"The plans and specifications have been returned by the Department of Water Supply, Gas and Electricity, approved, as noted on the same.

	Approximate Cost.
Item 1	$12,500 00
Item 2	1,500 00"

The plans and specifications referred to in the foregoing communication are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 11, 1911, the Board of Education requested approval of plans, specifications and estimates of cost for (Item 1) installing heating and ventilating apparatus at an approximate cost of $12,500, and for (Item 2) installing temperature regulation, at an approximate cost of $1,500, in addition to and alterations in Public School 40, Borough of The Bronx.

An examination of the plans and specifications shows that heating of the new addition is to be provided by the direct and indirect systems in conjuncton with the single duct plenum system of ventilation and thermostat temperature regulation, such as is now in use in the present building.

No alterations are to be made to the system in the old building, except to connect up the new work for the operation of the whole plant. The plans and specifications are satisfactory and the estimates of cost reasonable.

The cost of this work is to be charged to the corporate stock fund, "C-DE-77D, Heating and Ventilating and Electric Work," for which the sum of $18,600 was approved by the Board of Estimate and Apportionment on June 3, 1910. There is a sufficient balance in the fund to pay the cost of the work.

I recommend the adoption of the attached resolution approving the plans, specifications and estimates of cost as requested.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the plans, specifications and estimates of cost for the following work in additions to and alterations in Public School 40, Borough of The Bronx, under the jurisdiction of the Department of Education:

Item 1. Installing heating and ventilating apparatus, estimated cost, twelve thousand five hundred dollars ($12,500).

Item 2. Installing temperature regulation, estimated cost, one thousand five hundred dollars ($1,500).

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of $2,743.48 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the salaries of certain employees in the Fire Department, Building Bureau, together with a report of the Comptroller, to whom on July 6, 1911, this application was referred, recommending that said request be denied, for the reason that if these salaries are properly chargeable to corporate stock they should not be paid out of short term bonds:

In the Board of Aldermen.

Resolved, That, pursuant to the provisions of subdivision 8 of section 188 of the amended Greater New York Charter, and for the purpose of meeting deficiency in the funds available for the payment for a portion of the month of September, and for the full months of October, November and December, 1911, of the salaries of 3 Inspectors of Buildings, at $1,800 per annum each, 2 Architectural Draftsmen, at $1,500 per annum each, and 1 Inspector of Masonry Construction at $1,500 per annum, in the employ of the Division of Buildings of the Fire Department of The City of New York, the Board of Aldermen hereby requests the Board of Estimate and Apportionment to authorize the Comptroller to issue special revenue bonds in the sum of two thousand seven hundred and forty-three dollars and fifty-eight cents ($2,743.58).

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen adopted a resolution requesting $2,743.58 in special revenue bonds, the proceeds to be used for the payment of the salaries of certain employees of the Fire Department. In connection therewith I report as follows:

Since July, 1902, certain employees of the Building Bureau of the Department have been paid from corporate stock funds. On July 1, 1911, the employees so paid were as follows:

Inspectors of Buildings, 3 at $1,800 per annum	$5,400 00
Draftsmen, 2 at $1,500 per annum	3,000 00
Inspector of Masonry Construction	1,500 00
	$9,900 00

To pay the salaries of the employees from July 1 to December 31, 1911, the sum of $4,950 will be required. Funds to the amount of $2,206.42 are available for the purpose in unincumbered balances in two corporate stock authorizations, leaving a deficiency of $2,743.58. The Commissioner states that the necessities of the Department require the continuance of the present force.

If these salaries are properly chargeable to corporate stock, they should not be paid out of short term bonds, but the deficiency should be met by an authorization of corporate stock.

I recommend that the request for revenue bonds be denied. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the request of the Board of Aldermen for an issue of special revenue bonds as contained in the resolution adopted by said Board, June 27, 1911, and approved by the Mayor, July 5, 1911, as follows:

> "Resolved, That, pursuant to the provisions of subdivision 8 of section 188 of the amended Greater New York Charter, and for the purpose of meeting deficiency in the funds available for the payment for a portion of the month of September and for the full months of October, November and December, 1911, of the salaries of 3 Inspectors of Buildings, at $1,800 per annum, each; 2 Architectural Draftsmen, at $1,500 per annum, each, and 1 Inspector of Masonry Construction, at $1,500 per annum, in the employ of the Division of Buildings of the Fire Department of The City of New York, the Board of Aldermen hereby requests the Board of Estimate and Apportionment to authorize the Comptroller to issue special revenue bonds in the sum of two thousand seven hundred forty-three dollars and fifty-eight cents ($2,743.58)"

—be and the same is hereby denied.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Comptroller to the Board of Aldermen and to the Fire Department.

The Secretary presented the following communication from the Commissioner of Water Supply, Gas and Electricity requesting, and report of the Comptroller recommending, the adoption of a resolution directing the heads of the various departments, bureaus and offices of The City of New York and of the county government therein, having charge of city owned property to which water is supplied by the Department of Water Supply, Gas and Electricity, to request funds in their Budget estimates for 1912 in a sufficient amount to provide for the purchase, installation and repair of water meters and for the payment, at the rate of ten cents per 100 cubic feet for water furnished:

(On June 29, 1911, a communication from the Commissioner of Water Supply, Gas and Electricity, requesting the Board to adopt a resolution, as above, was referred to the Comptroller.)

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, City of New York, June 27, 1911.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment,* 277 Broadway, City:

Dear Sir—The preparation of the estimates for 1912 will soon be undertaken by the Departments, and I would respectfully request that the Board of Estimate and Apportionment adopt a resolution directing the several Borough Presidents and heads of departments having charge and control of city-owned property and buildings to which water is furnished by this Department to make provision in their Budget for sufficient money to cover the purchase, installation and repair of water meters in city-owned buildings and properties, and also to provide for an amount to pay for the water furnished at the regular fixed rate of 10 cents per 100 cubic feet, the same as any private company or individual.

I have had inspected a large number of the city-owned buildings and found, in most of them, that the plumbing was defective and that they were equipped with automatic flushing devices which wasted an enormous amount of water. The constant and uninterrupted flushing of the closets in these buildings is entirely unnecessary. The metering of these buildings will give the Department information as to the consumption of water, which we do not have now, and will also be a check on waste. If each department, board or commission is allotted a certain sum of money to pay for the water furnished to their respective buildings, I believe that the consumption of water will be considerably reduced. Yours truly,

HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Commissioner of Water Supply, Gas and Electricity requested the Board of Estimate and Apportionment to adopt a resolution directing the Borough Presidents and the heads of Departments having charge and control of city-owned property and buildings to which water is furnished by the Department of Water Supply, Gas and Electricity, to make provision in their departmental estimates for the Budget of 1912, for sufficient money to cover the purchase, installation and repair of water meters in city-owned buildings, and also for water furnished at regular fixed rate of 10 cents a hundred cubic feet. In connection therewith I report as follows:

The Commissioner's purpose is to prevent unnecessary waste of water and to subject all in control of city-owned buildings, etc., to which water is furnished, to the same rules and regulations as any private company or individual.

The Commissioner states he has found in a large number of city-owned buildings inspected by him, that the plumbing is defective; that the automatic flushing devices wasted an enormous amount of water. It is his opinion, therefore, that if each Department, Board or Commission is allotted a certain sum of money to pay for water furnished, the consumption of water would be considerably reduced.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the heads of the various Departments, Bureaus and Offices of The City of New York and of the county government therein, having charge and control of city-owned property and buildings to which water is supplied by the Department of Water Supply, Gas and Electricity, be and the same are directed to request funds in their departmental estimates for the Budget of the year 1912, in a sufficient amount to provide for the following purposes:

For the purchase, installation and repair of water meters in city-owned buildings and property.

For the payment, at the rate of ten (10) cents per one hundred (100) cubic feet, for water furnished thereto by the Department of Water Supply, Gas and Electricity.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Comptroller referring to the communication from the State Board of Charities, urging an increase in the force of Examiners in the Children's Bureau of the Department of Public Charities, to provide for reinvestigations of commitments of children to private institutions, and stating that provision has been made by the Board, through transfer of funds and the issue of special revenue bonds, for an additional number of Examiners for the work.

Which was ordered filed and the Secretary directed to transmit copies thereof to the State Board of Charities and to the Commissioner of Public Charities.

(On April 20, 1911, the above communication was referred to the Comptroller and the Commissioner of Public Charities.)

The Secretary presented a report of the Comptroller, referring to a communication from Mr. Francis V. Morrell, of 177 Quincy street, Brooklyn, suggesting that copies be made of Colonial records owned by the City, and recommending that the matter be referred to the Commissioner of Records of New York County, as the Commissioner has stated that while he had no jurisdiction over these records he will copy them if the matter be referred to him.

Which was referred to the Commissioner of Records, New York County.

The Secretary was directed to transmit a copy thereof to Mr. Francis V. Morrell.

(On April 13, 1911, the above communication was referred to the Comptroller.)

The Secretary presented a report of the Comptroller, referring to a communication from the Commissioner of Parks, Borough of The Bronx, requesting authority to award the contract for resurfacing the roadway of the Bronx and Pelham parkway, from the Southern boulevard to Butler street road, to other than the lowest bidder, and to a subsequent communication from the Commissioner withdrawing said request, and recommending that the Secretary be directed to return to the Commissioner of Parks, Borough of The Bronx, his request of June 27, 1911.

The Secretary was directed to return the communication aforesaid to the Commissioner of Parks, Borough of The Bronx.

(On June 29, 1911, the communication, dated June 27, 1911, was referred to the Comptroller, and on July 20, 1911, the communication of withdrawal was also referred to the Comptroller.)

The Secretary presented the following communication from the Department of Bellevue and Allied Hospitals relating to, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of the plans, specifications and estimate of cost ($1,500) for new flooring on the balconies of the Harlem Hospital, under the jurisdiction of said Department:

Bellevue and Allied Hospitals, June 23, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment,* 277 Broadway, New York City:

Sir—On March 30 the Board of Estimate and Apportionment adopted a resolution authorizing the issue of $2,500 corporate stock to provide means for the installation of floors of concrete construction to replace the present flooring of six of the balconies of Harlem Hospital under the jurisdiction of this Department. It has since been discovered that in order to provide concrete floors it will be necessary to construct supporting columns in order to strengthen the brackets which now support the balconies. The estimated cost of doing this work is $4,000. The architects, Messrs. McKim, Mead and White, have suggested that solid iron plates be placed over the present open gratings. This could be done at a cost of $1,500, and it is believed would answer the purpose. The Trustees, therefore, request that the wording of the resolution referred to be amended by omitting the words "for the installation of a floor of concrete construction," so that the resolution may read, "$2,500 to provide means for the replacement of the present flooring," etc. This will enable the contract to be let for the laying of solid iron plates over the present open gratings, as referred to.

The Trustees also have the honor to request that the accompanying plan showing the method of laying the new floors be approved. Respectfully,

M. ROBBINS, Acting Secretary, Board of Trustees.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 23, 1911, the Trustees of Bellevue and Allied Hospitals requested the approval of plans, specifications and estimate of cost ($1,500) for new flooring on the balconies of the Harlem Hospital, on Lenox avenue, between 136th and 137th streets, Borough of Manhattan.

The balconies, six in number, are to be floored with three-sixteenth-inch thick pressed steel floor plates; the plates are to be secured to the existing balcony flooring by bolts; before laying the plates two thicknesses of roofing felt is to be laid over the entire surface. The cost is to be charged to the Corporate Stock Fund, entitled "C-DH-13B, New Harlem Hospital, Flooring for Six Balconies."

The plans and specifications appear to be complete and satisfactory, and the estimated cost, in the sum of $1,500, reasonable.

I submit for adoption the resolution appended hereto. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimate of cost in the sum of one thousand five hundred dollars ($1,500) for new flooring on the balconies of the Harlem Hospital, on Lenox avenue, between 136th and 137th streets, Borough of Manhattan, under the jurisdiction of the Department of Bellevue and Allied Hospitals.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs

of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending, approval of the plans, specifications and estimate of cost ($77,000), for the general construction, etc., of additions to and alterations in Public School No. 20, The Bronx, Department of Education, provided, however, that no alterations shall be paid out of corporate stock except such as are incidental to the construction of the additions:

Board of Education, Park Avenue and 59th Street, New York, July 12, 1911.

Hon. W. A. Prendergast, *Comptroller:*

Dear Sir—I beg to advise you of the receipt of a communication from Mr. C. B. J. Snyder, Superintendent of School Buildings, under date of July 11, 1911, reading as follows:

"I am forwarding herewith plans and specifications for the general construction, etc., of additions to and alterations in Public School 20, Borough of The Bronx, for transmission to the Comptroller, to be presented to the Board of Estimate and Apportionment in compliance with the resolution adopted by that Board on January 5, 1911.

"The plans and specifications have just been returned by the Department of Water Supply, Gas and Electricity, approved, as noted on same."

Approximate cost: $77,000.

The plans and specifications referred to in the foregoing communication are transmitted herewith. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 12, 1911, the Board of Education requested approval of plans, specifications and estimated cost, in the sum of $77,000, for the general construction, etc., of additions to and alterations in, Public School 20, Borough of The Bronx.

An examination of the plans and specifications shows that the new addition will be approximately 50 by 70 feet, five stories in height, and will contain fifteen rooms. A new coal storage building is to be constructed and a new demonstration table, blackboard, etc., are to be placed in one of the rooms on the second floor of the old building, to provide for the higher grade classes which will be established at this school.

The plans and specifications are satisfactory and the estimate of cost reasonable.

The cost of the work is to be charged to the corporate stock fund, "C-DE-110C, Construction and Equipment of an Addition to and Installing Electric Work in Public School 20, Borough of The Bronx." The authorization was approved by the Board of Estimate and Apportionment on March 9, 1911.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the plans, specifications and estimate of cost, seventy-seven thousand dollars ($77,000), for the general construction, etc., of additions to and alterations in Public School 20, Borough of The Bronx, provided, however, that no alterations shall be paid for out of corporate stock except such alterations as shall be necessarily incidental to the construction of the additions, under the jurisdiction of the Department of Education.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following report of the Comptroller referring to the request of the Fire Commissioner for approval of the specifications for alterations to the Telegraph Bureau of the Fire Department Headquarters, Manhattan, and recommending that the Fire Commissioner be notified that the plans and specifications in their present form are satisfactory, but are returned without approval for the reason that the work should not be paid for from an issue of corporate stock:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 23, 1911, the Fire Commissioner submitted for approval the specifications for alterations to the Telegraph Bureau on the sixth floor of the Fire Department headquarters building, 157-159 East 67th street, Manhattan.

Bids for the work were received on March 17, 1911, and the estimated cost in the sum of $2,266, is the amount of the lowest bid.

It is proposed to charge the cost against two accounts, as follows:

Corporate Stock Fund.

C-FD-19A. Sites and Buildings:	
Alterations to headquarters building....................................	$2,123 91
1911 Budget Appropriation—	
975. Fire Department, Administration, Repairs and Replacements by Contract or Open Order....................................	$142 09

The cost, therefore, would be charged almost entirely against corporate stock, although the work consists of repairs, new flooring, changes in the location of partitions and electric light outlets.

Since the plans and specifications for the electric work were submitted for approval they have been redrawn and rewritten to secure the approval of the Department of Water Supply, Gas and Electricity.

The corporate stock fund C-FD-19A was established by the appropriation of $100,000 by the Board of Estimate and Apportionment on April 2, 1909, "for the purpose of providing means for alterations to the present headquarters building of the Fire Department, on 67th street west of 3d avenue, Borough of Manhattan, and for the completion and equipment of the extension thereto."

The proposed use of the unexpended balance in the fund for alterations to the sixth floor of the old building, principally in the rooms formerly occupied by the electric batteries of the telegraph system which have been moved into the new annex building, is not contrary to the purpose for which the appropriation was authorized. The work, however, calls for alterations and repairs, and the cost should not be charged against corporate stock.

I recommend, therefore, that the Fire Commissioner be notified that the plans and specifications in their present form are satisfactory, but that they are returned without approval for the reason that the work should not be paid for from an issue of corporate stock. Respectfully, WM. A. PRENDERGAST, Comptroller.

The Secretary was directed to notify the Fire Commissioner of the recommendations contained in the report of the Comptroller and to return the plans referred to therein for the reasons set forth in said report.

The Secretary presented the following communications from the Commissioner of Records of New York County, submitting plans and specifications for steel file cases in the office of the County Clerk, New York County, in the County Court House, together with a report of the Comptroller, to whom on June 29, 1911, this matter was referred, recommending that said plans and specifications, be disapproved, as they still contain defects of various kinds and call for a large number of cases unnecessarily expensive in details of construction and finish:

Commissioner of Records of the County of New York, Hall of Records, Borough of Manhattan, City of New York, June 24, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor:*

Dear Sir—It is in obedience to the direction of the law that steel file cases and furnishings shall be provided for the office of the Clerk of the County of New York in the County Court House, "without unnecessary delay," that I request the Board of Estimate and Apportionment, in the communication enclosed herewith, to authorize the required issue of corporate stock before the adjournment of the Board for vacations, in order that the contract may be made and the work progressed during the summer; thus avoiding an unnecessary delay of several months.

The plans, form of contract and specifications, now submitted by direction of the statute, are exactly the same for what is required as the plans, contract and specifications, approved by the Board of Estimate and Apportionment upon the recommendation of the Comptroller, on December 1, 1910, and for which a contract was awarded on January 12, 1911; and similar to the plans, form of contract and specifications for what is now required, submitted to the Board and referred to the Stock Budget Committee on January 12, 1911, except that, as I explained when I appeared before that Committee on June 2, 1911, a reduction is made in the number of "case sections" required because of the enactment of laws permitting the destruction of old and useless records, with a relative decrease in the estimate of cost.

I assume it will be unnecessary, therefore, to delay action now, as the Stock Budget Committee has had these plans, contracts and specifications under consideration since January 12, 1911; and the request that provision should be immediately made for steel file cases and furnishings in the office of the Clerk of the County of New York in the County Court House has been under consideration by the Board of Estimate and Apportionment since May 21, 1909.

A certified copy of chapter 291, Laws of 1911, has been sent to the Secretary of the Board of Estimate and Apportionment. Very truly yours,

WILLIAM S. ANDREWS, Commissioner of Records, County of New York.

Commissioner of Records of the County of New York, Hall of Records, Borough of Manhattan, City of New York, June 24, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman, Board of Estimate and Apportionment:*

Dear Sir—As directed to do by chapter 291, Laws of 1911, I hereby report to the Board of Estimate and Apportionment plans, forms of contract and specifications for steel file cases and necessary furnishings required for the record rooms in the office of the Clerk of the County of New York in the County Court House, the estimated cost for which is $70,000.

There is an unexpended balance of more than $10,000 authorized to be used for the purpose of providing such steel file cases and furnishings; so that all that is required to be now authorized for this purpose is $60,000.

I, therefore, request your Board to authorize the Comptroller to issue and sell corporate stock to the amount of $60,000, to be applied to the cost of such steel file cases and furnishings.

I request your Board to make such authorization of corporate stock before the adjournment for the summer recess, in order that there may not be unnecessary delay in awarding a contract and proceeding with the work necessary for the care of the records and to safeguard them against danger from fire.

The estimated cost for such file cases and furnishings, as stated in my communication of January 9, was $75,000. Since then provision has been made by chapters 274 and 275, Laws of 1911, for the destruction of old and useless records, which will effect a saving of approximately one thousand cubic feet in the case space required, with a consequent reduction in cost. It is because of this reduction in the number of cases required that the estimate of cost is less. Respectfully submitted,

WILLIAM S. ANDREWS, Commissioner of Records, County of New York.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 24, 1911, the Commissioner of Records of the County of New York requested the Board of Estimate and Apportionment to authorize the issue of $60,000 corporate stock for steel file cases and necessary furnishings required for the record rooms in the office of the Clerk of the County of New York in the County Court House.

The Commissioner, with his request, transmitted a form of contract and plans and specifications for the steel file cases. He states that the estimated cost of the work is $70,000 and that there is an unexpended balance of more than $10,000 authorized for this purpose, so that the sum now required to be now authorized is $60,000.

On January 9, 1911, the Commissioner of Records requested this Board to authorize the issue of $75,000 in corporate stock for the purchase of steel file cases and furnishings in the office of the Clerk of the County of New York, and submitted plans and specifications for same.

The plans and specifications were redrawn, and those afterward submitted contained many discrepancies and indefinite requirements. On March 16, 1911, they were returned to the Commissioner without approval.

In the plans and specifications now submitted, certain suggestions made by the Department of Finance have been included and the number of cases called for has been reduced to the number recommended in my report of March 16, 1911. They still contain, however, defects of various kinds and call for a large number of cases unnecessarily expensive in details of construction and finish.

The statement as to unnecessary expense relates to cases to be used for the storage of documents in rooms not open to the public. These cases are to be made of a double shell, with adjustable shelving, and are to be finished with three coats of white varnish, each baked and rubbed down, applied over the two-coat Japan finish.

There are other defects in the plans and specifications.

Upon the end elevations of all articles of furniture shown in the plans are lines evidently intended to indicate ornamental mouldings, and the specifications state that all ornamental mouldings shall be of No. 14 gauge wrought iron. It is impossible to determine from the specifications whether mouldings are required or not. In describing the "case sections" the specification requires "These sections to be plain boxes as shown, without projections of any kind, except one-half inch at bottom." A decision by the architect after the contract has been made, that these lines are not intended to represent mouldings would save the contractor a considerable sum of money.

It is possible that ornamental panels are desired only at exposed ends of groups of cases. There are, however, no floor plans showing how many such ends there will be.

The absence of any floor plans or information as to the location proposed for the cases and furniture makes it difficult for a bidder to calculate the cost of complying with the following articles of the contract:

The contractor shall be held responsible for the overall sizes of each piece of furniture. He must at his own expense take all measurements of the rooms in which the furniture will be set up. He shall ascertain the conditions in these rooms and shall make the furniture suit the conditions, finishing his work in a neat and substantial manner and to the satisfaction of the architect.

In carrying out the hereinafter described work, should any electric, heating, vacuum-sweeping or plumbing lines, etc., be met with, the same must be charged to suit the instructions of the architect.

In reference to Figures 2, 3 and 4 of the plans, the outside dimensions shown, which agree with the figures quoted in the specifications, can be followed by the contractor, but the cases will not then agree with the interior dimensions quoted on the plan. It is the intention to settle these questions with the contractor after the contract has been made.

The details of the construction of the card index units are not given either in the plans or specifications.

On July 17, 1911, an appropriation of $25,000 was authorized by the Board of Estimate and Apportionment for file cases and furnishings for the office of the Clerk of the County of New York in the County Court House. With the unexpended balance from a former appropriation of approximately $10,000, there is therefore $35,000 available for this work. The plans and specifications call for labor and material costing more than this amount.

I recommend that the plans and specifications be not approved.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the plans and specifications submitted by the Commissioner of Records, under date of June 24, 1911, for steel file cases and necessary furnishings required for the record rooms in the office of the County Clerk of New York County, at an estimated cost of seventy thousand dollars ($70,000), be and the same are hereby disapproved.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary was directed to return the form of contract, etc., and to transmit a copy of the report of the Comptroller to the Commissioner of Records, New York County.

The Secretary presented a report of the Corporate Stock Budget Committee stating that action cannot safely be taken on the balance in the corporate stock account for a new site and building for the College of The City of New York, amounting to

$8,485.82, until such time as the drainage tunnel has been completed owing to the uncertainty as to its cost.

Which was ordered filed and the Secretary directed to transmit a copy thereof to the College of The City of New York.

(On December 22, 1910, the corporate stock estimate of the College of The City of New York for the years 1911 to 1915 was referred to said committee.)

The Secretary presented the following communication from the Department of Bellevue and Allied Hospitals relative to, and report of the Corporate Stock Budget Committee recommending, that the resolution adopted by the Board on March 30, 1911, authorizing an issue of $2,500 corporate stock to provide means for the installation of a floor of concrete construction, for the replacement of the present flooring of six of the balconies at Harlem Hospital, be amended by substituting the words "for the installation of a water-tight flooring on six of the balconies of Harlem Hospital" for the words "for the installation of a floor of concrete construction, for the replacement of the present flooring of six of the balconies at Harlem Hospital."

(On June 29, 1911, the request of the Board of Trustees for the amendment of the above resolution was referred to said committee.)

Bellevue and Allied Hospitals, Office of the Board of Trustees, 1st Avenue and 26th Street, New York, June 23, 1911.

Hon. Joseph Haag, *Secretary, Board of Estimate and Apportionment,* 277 Broadway, New York City:

Sir—On March 30 the Board of Estimate and Apportionment adopted a resolution authorizing the issue of $2,500 corporate stock to provide means for the installation of floors of concrete construction to replace the present flooring of six of the balconies of Harlem Hospital under the jurisdiction of this Department. It has since been discovered that in order to provide concrete floors it will be necessary to construct supporting columns in order to strengthen the brackets which now support the balconies. The estimated cost of doing this work is $4,000. The architects, Messrs. McKim, Mead and White, have suggested that solid iron plates be placed over the present open gratings. This could be done at a cost of $1,500, and it is believed would answer the purpose. The Trustees, therefore, request that the wording of the resolution referred to be amended by omitting the words "for the installation of a floor of concrete construction," so that the resolution may read, "$2,500 to provide means for the replacement of the present flooring, etc." This will enable the contract to be let for the laying of solid iron plates over the present open gratings, as referred to.

The Trustees also have the honor to request that the accompanying plan showing the method of laying the new floors be approved. Respectfully,

A. M. ROBBINS, Acting Secretary, Board of Trustees.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 23, 1911, the Trustees of Bellevue and Allied Hospitals requested amendment of a resolution adopted by the Board of Estimate and Apportionment on March 30, 1911, approving of an issue of corporate stock to an amount not exceeding $2,500, to provide means for the installation of a floor of concrete construction for the replacement of the present flooring of six of the balconies at Harlem Hospital. The Board of Aldermen concurred in the appropriation on April 11, 1911.

It has since been discovered that to provide for concrete floors it will be necessary to construct supporting columns in order to strengthen the brackets which now support the balconies. Messrs. McKim, Mead & White, the architects, therefore, have suggested that instead of new concrete floors, solid iron plates be placed over the present open gratings.

This will be cheaper construction, and we concur in the opinion of the architects that it will answer the purpose.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment on March 30, 1911, and concurred in by the Board of Aldermen on April 11, 1911, as follows:

"Resolved, That, pursuant to section 47 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two thousand five hundred dollars ($2,500), to provide means *for the installation of a floor of concrete construction, for the replacement of the present flooring of six of the balconies, at Harlem Hospital,* and when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller is authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding two thousand five hundred dollars ($2,500), the proceeds whereof to be applied to the purposes aforesaid."

—be and the same is hereby amended to read as follows:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two thousand five hundred dollars ($2,500), to provide means *for the installation of a water-tight flooring on six of the balconies at Harlem Hospital,* and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the President of the Borough of Richmond relative to, and report of the Corporate Stock Budget Committee recommending, approval of the schedule, as revised for the budgetary part schedule No. 1892, Bureau of Engineering (Construction) and of the schedule for employees to be paid out of the Corporate Stock Fund for a Sewage Disposal Experimental Plant, Office of said Borough President, providing for increases in compensation of nine incumbents, and for an Assistant Engineer at $2,250 and three Laborers at $900 per annum each in the new schedule:

(On June 8, 1911, a communication from the President of the Borough of Richmond, relative to certain modifications of the present salary schedules for the Bureau of Engineering, Construction, and the adoption of a schedule for the Sewage Disposal Plant was referred to said Committee.)

Bureau of Engineering Construction, Borough Hall, New Brighton, New York City, June 2, 1911.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Sirs—In adopting the Corporate Stock Budget for 1911, for matters affecting the Department of the President of the Borough of Richmond, we would like to have certain modifications of the present salary schedules for the Bureau of Engineering Construction made, so as to provide for a few changes in salaries which I propose to make, as follows:

Present Budget Schedule.

1 Engineer at, per annum	$4,000 00
1 Assistant Engineer at, per annum	3,000 00
3 Assistant Engineers at, per annum	2,700 00
5 Assistant Engineers at, per annum	2,250 00
3 Assistant Engineers at, per annum	2,000 00
2 Assistant Engineers at, per annum	1,800 00
2 Assistant Engineers at, per annum	1,650 00
2 Transitmen at, per annum	1,800 00
1 Transitman at, per annum	1,650 00
1 Transitman at, per annum	1,350 00
1 Transitman and Computer at, per annum	1,800 00
2 Transitmen and Computers at, per annum	1,650 00
1 Transitman and Computer at, per annum	1,500 00
1 Leveler at, per annum	1,500 00

5 Rodmen at, per annum	1,200 00
2 Rodmen at, per annum	900 00
3 Axemen at, per annum	900 00
1 Searcher at, per annum	1,200 00
1 Topographical Draftsman at, per annum	1,800 00
2 Topographical Draftsmen at, per annum	1,650 00
3 Topographical Draftsmen at, per annum	1,500 00
1 Topographical Draftsman at, per annum	1,350 00
1 Clerk at, per annum	1,650 00
1 Clerk at, per annum	1,350 00
1 Stenographer and Typewriter at, per annum	1,500 00
1 Messenger at, per annum	1,050 00
1 Auto Engineman, at, per annum	1,050 00
8 Inspectors of Regulating and Grading, etc., at, per annum	1,200 00
9 Inspectors of Sewer Construction at, per annum	1,500 00
8 Foremen at, per annum	1,050 00
5 Drivers at, per annum	900 00
17 Laborers at, per annum	900 00
1 Laborer at, per annum	720 00
3 Laborers, at, per day	2 00

Proposed Budget Schedule.

1 Engineer at, per annum	$5,000 00
1 Assistant Engineer at, per annum	3,000 00
3 Assistant Engineers at, per annum	2,700 00
3 Assistant Engineers at, per annum	2,400 00
2 Assistant Engineers at, per annum	2,250 00
4 Assistant Engineers at, per annum	2,000 00
2 Assistant Engineers at, per annum	1,800 00
1 Assistant Engineer at, per annum	1,650 00
2 Transitmen at, per annum	1,800 00
1 Transitman at, per annum	1,650 00
1 Transitman at, per annum	1,350 00
1 Transitman and Computer, per annum	1,800 00
2 Transitmen and Computers, per annum	1,650 00
1 Transitman and Computer, per annum	1,500 00
1 Leveler at, per annum	1,500 00
5 Rodmen at, per annum	1,200 00
2 Rodmen at, per annum	900 00
3 Axemen at, per annum	900 00
1 Searcher at, per annum	1,200 00
2 Topographical Draftsmen at, per annum	1,800 00
1 Topographical Draftsman at, per annum	1,650 00
3 Topographical Draftsmen at, per annum	1,500 00
1 Topographical Draftsman at, per annum	1,350 00
1 Clerk at, per annum	1,650 00
1 Clerk at, per annum	1,500 00
1 Stenographer and Typewriter at, per annum	1,500 00
1 Messenger at, per annum	1,050 00
1 Auto. Engineman at, per annum	1,500 00
8 Inspectors of Regulating and Grading, etc., at, per annum	1,200 00
8 Inspectors of Sewer Construction at, per annum	1,500 00
8 Foremen at, per annum	1,050 00
5 Drivers at, per annum	900 00
18 Laborers at, per annum	900 00
3 Laborers at, per day	2 00

Following are the names of the employees whose salaries it is proposed to change, and the reasons therefor in each case:

There are several employees in this Bureau who are deserving of recognition for faithful services performed over a long period of time, and I beg to make the following recommendations:

Theodor S. Oxholm, Engineer, from $4,000 to $5,000 per annum.

"May 17, 1911.

"*Board of Estimate and Apportionment,* 277 Broadway, New York:

"Gentlemen—Last year we requested the establishment of the position of Engineer in the Borough of Richmond for one incumbent at a salary of $5,000, making an increase for the present incumbent of the position of $1,000.

"Due to the great effort making for economy and even decreasing City expenditures, favorable consideration was not given to our request and, in fact, we were willing to have this Borough share reasonably with the whole City in the line of retrenchment.

"There are other questions, however, beside those of retrenchment, and the important ones are justice and proper equalization in remuneration for similar work in similar departments of the City service.

"The incumbent of the present position, whose services it is our desire to recognize by this increase, has been in different departments of New York City and the County of Richmond for nearly twenty-seven years, with increasing responsibilities and increasing efficiency.

"The expense can be met for this year without any increase in present appropriation.

"We would ask that this matter receive immediate and favorable consideration, so that the Board of Aldermen may be able to pass upon the establishment of the position and the change can go into effect as soon as possible.

"Yours very truly, GEORGE CROMWELL, President of the Borough."

William B. Grubbe, Cherry Lane, West New Brighton;
Henri Mouronval, Westerleigh, West New Brighton;
William MacDonald, Richmond avenue, Port Richmond.

The above three men are in charge of divisions of work and have been receiving $2,250 since January 1, 1909. Their services require judgment, accuracy and the full responsibility for their work and that of the men under them which they are obliged to carry. They have been faithful in their services and the work under them has been carried on in a satisfactory manner, and I believe their services are worth at least $2,400 per annum. I would, therefore, recommend that the salaries of the above men be increased from $2,250 to $2,400 per annum, to take effect as soon as the necessary authorizations are obtained.

William J. Noonan, 421 Cary avenue, West New Brighton, Assistant Engineer at $1,800 per annum. Mr. Noonan has been employed for the last three years on the St. George improvement. Since the resignation from the service of Mr. Weinstock, Mr. Noonan has taken charge of all street grades and holds a responsible position. His last increase in salary was two years ago, and his services have been in every way satisfactory, and the character of his work is of much importance and deserving of greater remuneration, and I recommend that his salary be increased to $2,000, to take effect as above.

Travis E. Harris, Jr., 201 Dongan street, West New Brighton, Assistant Engineer at $1,650 per annum, has been in this Bureau for over five years. He is highly recommended by his immediate superiors for general ability, and he is receiving a much lower compensation than other engineers in this department doing similar work. He was increased from $1,500 to his present salary on January 1, 1910. I would recommend that his salary be made $1,800 per annum, to take effect as soon as the necessary authorization has been obtained.

Amzi T. Rogers, Topographical Draftsman, 136 Bodine street, West New Brighton, has been receiving $1,650 for the past three years. He has been employed principally in the sewer designing room in preparing maps showing locations of old sewers in the Borough, and latterly of subsurface structures developed by sewer construction. It is proposed to place him on the special work of substructure maps as soon as this division is established, which will be in a short time, and provision must be made in the next Budget for this work. He has been faithful in his services, and his immediate superior recommends him for promotion; therefore, I would request that his salary be increased to $1,800 per annum, to take effect as above.

George F. Callahan, Clerk at $1,350 per annum, has been receiving this salary for the past two years. He has charge of the preparation of all contract forms, both for the printer and for contract letting; also all bidding sheets and advertisements. This work is of great importance and the accuracy which has been shown is rather remarkable when the difficulty of the matter is considered. There are constant changes being made by the Corporation Counsel in contract forms, which must all be noted particularly and used in future work. The entire responsibility of these matters is placed on Mr. Callahan's shoulders, and I would recommend that his salary be increased to $1,500 per annum as being more commensurate with the duties he performs than his present salary; same to take effect as above recommended.

John H. Dickermann, 43 Elm place, Castleton Corners, Laborer at $720 per annum. He is the only laborer in this Bureau receiving less than $900 per annum. His services have been satisfactory, and I would recommend that his salary be increased to $900 per annum, as soon as the necessary authorization can be obtained.

In connection with the issue of Corporate Stock for Sewage Disposal Experiment Plant, we wish to have adopted the following schedule of salaries:

1 Assistant Engineer	$2,250 00
1 Chemist	1,500 00
3 Laborers at $900	2,700 00

Very truly yours, GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 7, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 2, 1911, the President of the Borough of Richmond requested modification of the budgetary part schedule for the Bureau of Engineering-Construction in his office for the year 1911; and approval of a schedule for employees to be paid out of a Corporate Stock Fund for a Sewerage Disposal Experimental Plant. In connection therewith we report as follows:

It is proposed to increase the compensation of nine incumbents. One increase is for $1,000 per annum, one for $200, and seven are for $150 each, or a total yearly increase in cost of $2,250.

The $1,000 increase is for Theodore S. Oxholm, Engineer, in charge of the Bureau. On June 27, 1911, the necessary grade of position for the increase was established, pursuant to the provisions of section 56 of the Greater New York Charter.

Three assistant engineers are proposed for increase from $2,250 to $2,400 per annum. The incumbents are William B. Grubbe, Henri Mouronval and William MacDonald. All three are in charge of divisions, and have been at their present rate since January 1, 1909. The President states that their services require judgment and accuracy, and entail full responsibility for the work of the men under them.

The $200 increase is for William J. Noonan, an Assistant Engineer, at $1,800 per annum. The incumbent has been assigned for the last three years to the St. George improvement, and for some time, in addition, has had full charge of all street grades. He was last increased two years ago.

Travis E. Harris, assistant engineer, is proposed for increase from $1,650 to $1,800 per annum. The President states that Mr. Harris is receiving a much lower rate of compensation than other engineers in the department doing similar work.

Amzi T. Rogers, Topographical Draftsman, is proposed for increase from $1,650 to $1,800 per annum. He has been at the present rate three years. He has worked chiefly in sewer designing, in the preparation of maps showing locations of old sewers and of subsurface structures developed by sewer construction. It is proposed to assign him to the special work of subsurface maps as soon as a division for this work is established.

George F. Callahan, Clerk, is proposed for increase from $1,350 to $1,500 per annum. He has been at the present rate for two years. He is in charge of all contract forms, both for the printer and for contract letting; also bidding sheets and advertisements. The President states that the work requires the utmost accuracy.

It is further proposed to increase John H. Dickerman, a Laborer, from $750 to $900 per annum. The incumbent is the only laborer in the Bureau receiving less than $900.

Your Committee has approved of the issue of Corporate Stock to the amount of $30,000 for the Sewerage Disposal Experimental Plant. The authorization is for construction and maintenance. The proposed schedule calls for an Assistant Engineer, at $2,250 per annum, a Chemist at $1,500, and three Laborers at $900 per annum each. Your Board has approved of the establishment of the position of Chemist at $1,500, pending action by the Board of Aldermen. The line has been omitted from the schedule.

We recommend that the request be approved, with the exception noted, by the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Richmond, for the year 1911, as follows:

President, Borough of Richmond.

Bureau of Engineering—(Construction)—

1892. Salaries:

Engineer	1 at	$5,000 00
Assistant Engineer	1 at	3,000 00
Assistant Engineers	3 at	2,700 00
Assistant Engineers	3 at	2,400 00
Assistant Engineers	2 at	2,250 00
Assistant Engineers	4 at	2,000 00
Assistant Engineers	2 at	1,800 00
Assistant Engineer	1 at	1,650 00
Transitmen	2 at	1,800 00
Transitman	1 at	1,650 00
Transitman	1 at	1,350 00
Transitman and Computer	1 at	1,800 00
Transitmen and Computers	2 at	1,650 00
Transitman and Computer	1 at	1,500 00
Leveler	1 at	1,500 00
Rodmen	5 at	1,200 00
Rodmen	2 at	900 00
Axemen	3 at	900 00
Searcher	1 at	1,200 00
Topographical Draftsmen	2 at	1,800 00
Topographical Draftsman	1 at	1,650 00
Topographical Draftsmen	3 at	1,500 00
Topographical Draftsman	1 at	1,350 00
Clerk	1 at	1,650 00
Clerk	1 at	1,500 00
Stenographer and Typewriter	1 at	1,500 00
Messenger	1 at	1,050 00
Auto-Engineman	1 at	1,050 00
Inspectors of Regulating, Grading and Paving	8 at	1,200 00
Inspectors of Sewer Construction	9 at	1,500 00

Wages, Regular Employees:

Foremen	8 at	1,050 00
Drivers	5 at	900 00
Laborers	18 at	900 00

Laborers, 3 at $2 per day (302 days).

Budgetary part allowance, $40,525.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the office of the President of the Borough of Richmond, as follows:

Sewerage Disposal Experimental Plant—

Salaries Corporate Stock Force:

Assistant Engineer	1 at	$2,250 00
Laborers	3 at	900 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following report of the Corporate Stock Budget Committee relative to increases in compensation of four employees in the Topographical Bureau, Borough of Queens.

(On March 9, 1911, the request of the President of the Borough of Queens for authority to increase the compensation of three Topographical Draftsmen, and one Stenographer and Typewriter in the Topographical Bureau, was referred to the Committee on Salaries and Grades.)

(On April 13, 1911 (pages 1560-1561 pamphlet minutes), the Board adopted a resolution, on the recommendation of the Committee on Salaries and Grades, disapproving said request, and on April 20, 1911 (page 1657 pamphlet minutes), the vote on the resolution of April 13 was reconsidered and the matter ordered placed on the Calendar for the meeting of May 4, 1911.)

(At various meetings after said date the matter was placed on the Calendar and laid over, and on May 25, 1911, was referred to the above committee.)

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, June 30, 1911.

To the Board of Estimate and Apportionment.

Gentlemen—On March 1, 1911, the President of the Borough of Queens requested increased compensation, in the sum of $600 per annum, for four employees paid from funds other than Budget appropriation. On May 25, 1911, a report of the Select Committee on the matter was referred to the Corporate Stock Budget Committee. In connection therewith we report as follows:

The incumbents for the proposed increases are in the Topographical Bureau of the Borough. Their periods of service, rates of compensation, etc., are as follows:

Topographical Draftsman, from $1,350 *to* $1,500 *Per Annum.*

Gilbert S. Lemley, appointed on September 9, 1907, at $1,200 per annum; increased on July 1, 1909, to the present rate.

Topographical Draftsman, 2 from $1,200 *to* $1,350 *Per Annum.*

Henry P. Labelle, appointed on December 1, 1906, as Axeman with the Rapid Transit Commission, at $720 per annum. Appointed as Topographical Draftsman in the office of the President of the Borough of Queens on September 1, 1907, at the present rate.

John W. Soule, appointed on December 10, 1906, as Rodman with the Rapid Transit Commission, at $960 per annum. Appointed as Topographical Draftsman in the office of the President of the Borough of Queens on September 16, 1907, at the present rate.

Stenographer and Typewriter, 1, *from* $900 *to* $1,050 *Per Annum.*

Mary A. Carabine, appointed on May 1, 1908, in the Department of Public Charities, at $600 per annum. Transferred to the office of the President of the Borough of Queens on June 21, 1909, at the present rate.

No additional appropriation or modification of the schedule is necessary, as vacancies permit of the increases. Mr. Lemley is to be promoted to a vacancy caused by the death of a Topographical Draftsman. One of the Draftsmen, at $1,200, is to fill Mr. Lemley's present position; the other $1,200 incumbent is to be promoted to fill a $1,350 position left vacant by resignation. The two $1,200 positions are to be filled by appointment. On February 23, 1911, your Board provided by modification of the Topographical Schedule for an additional Stenographer at $1,050. It is proposed to promote Miss Carabine to the rate, and fill the $900 position by appointment.

The attached resolution, if adopted, will grant the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of increases in compensation for employees in the Topographical Bureau, office of the President of the Borough of Queens, as follows:

		Rate Per Annum.
Topographical Draftsman	1	from $1,350 00 to $1,500 00
Topographical Draftsman	2	from 1,200 00 to 1,350 00
Stenographer and Typewriter	1	from 900 00 to 1,050 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the District Attorney, New York County, requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen recommending, the establishment in the Office of said District Attorney of the grade of position of Stenographer to Grand Jury at $10 per diem for three incumbents, and that the grade of Stenographer to Grand Jury at $3,000 per annum be abolished:

(On July 6, 1911, a communication from the District Attorney of New York County relative to the above matter was referred to the Comptroller.)

District Attorney's Office, County of New York, July 5, 1911.

To the Honorable Board of Estimate and Apportionment, City of New York:

Gentlemen—I hereby respectfully request that, pursuant to section 56 of the Greater New York Charter, you recommend to the honorable Board of Aldermen the establishment of the position of Stenographer to the Grand Jury, three (3) incumbents at $10 per diem each, in the Office of the District Attorney of the County of New York, to take effect September 1, 1911.

The necessity for this request is due to the fact that chapter 115, Laws of 1911, provides for the appointment of two (2) additional Grand Jury Stenographers, County of New York. The additional cost to the County for the employment of said two additional Grand Jury Stenographers is fully explained in my communication to your honorable Board under date of the 29th ultimo, wherein the necessary appropriation is requested for the employment of said two Stenographers. This application will appear on your calendar on Thursday, July 6, 1911.

Very truly yours, CHARLES S. WHITMAN, District Attorney.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 12, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 5, 1911, the District Attorney of the County of New York requested the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Stenographer to the Grand Jury, at $10 per diem, for three incumbents, to take effect September 1, 1911. In connection therewith we report as follows:

Chapter 115 of the Laws of 1911 provides, in part, as follows:

> In the county of New York it shall be lawful for the District Attorney of such county to appoint three stenographers, each of whom shall have authority to take and transcribe the testimony given before the grand juries in said county of New York.

The District Attorney states that the establishment is necessary owing to an increase in the number of grand juries.

We recommend the adoption of the attached resolution approving the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the District Attorney, New York County, of the grade of position, as follows:

Title.	Rate Per Diem.	No. of Incumbents.
Stenographer to Grand Jury	$10 00	3

—and that the grade of position of Stenographer to Grand Jury, at $3,000 per annum, be hereby abolished.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending, that the compensation of Janitors in the Department of Education be fixed temporarily and until further modified:

(On July 6, 1911, a resolution of the Board of Education relative to the fixing of the compensation of Janitors of certain school buildings was referred to said Committee.)

Board of Education, Park Avenue and 59th Street, New York, June 29, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I have the honor to transmit herewith a certified copy of a resolution adopted by the Board of Education at a meeting held on the 28th inst., relative to fixing the compensation of the Janitors of certain school buildings.

Respectfully yours, A. E. PALMER, Secretary, Board of Education.

Resolved, That the Board of Estimate and Apportionment be and it is hereby respectfully requested to recommend to the Board of Aldermen that the compensation of Janitors of public school buildings, etc., be fixed in accordance with the following list, taking effect on the date indicated in each instance:

Transfer.

William J. Meaney, Jr. (Janitor), from Public School 23, Queens, to Public School 37, Brooklyn; annual compensation, $1,836; taking effect July 1, 1911.

Temporary Assignment.

John E. Rooke, assigned to Public School 22, Brooklyn; compensation, $90 per month; taking effect June 12, 1911.

Appointment.

Benjamin T. Corwin (Janitor with knowledge of steam heating); Public School 32 (Annex), The Bronx; compensation, $884; taking effect July 1, 1911.

Changes in Compensation.

Janitor, Public School 15, The Bronx, for the care of additional portable buildings, from $480 to $720 per annum, taking effect June 14, 1911.

Janitor, Public School 66, Manhattan, for the temporary care of Public School 30, Manhattan, from $200 to $292 per month, taking effect June 16, 1911. (In order to get the building in proper condition.)

Janitor, Jamaica High School, from $900 to $1,080 per annum, taking effect July 1, 1911. (Compensation made the same as all direct system schools.)

Janitors of all school buildings having baths, which are used in connection with summer playgrounds, $1 per session.

True copy of resolution adopted by the Board of Education on June 28, 1911.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 13, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 28, 1911, the Board of Education requested the fixation, pursuant to the provisions of section 56 of the Greater New York Charter, of the compensation of six Janitors for Public Schools 37 and 22, Brooklyn, 32 Annex and 15, The Bronx, 66, Manhattan, and the Jamaica High School, and an extra allowance of $1 per session each for all Janitors of school buildings having baths which are used in connection with summer playgrounds.

We recommend that the request be granted by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following was offered:

Whereas, By opinions of the Corporation Counsel, as of June 28, 1910, and July 30, 1910, the Comptroller was advised that the payment of salaries of Janitors in the Department of Education is illegal, unless such salary shall have been established under the provisions of section 56 of the Greater New York Charter; and

Whereas, The matter of adjusting the compensation of Janitors and the fixation of their salaries under the provisions of section 56 of the Charter, is now in the hands of a Special Committee of the Board of Estimate and Apportionment; therefore be it

Resolved, That pursuant to the provisions of section 56 of the Charter, the Board of Estimate and Apportionment hereby recommends to the Board of Aldermen, pending the report of said Committee, the compensation of Janitors in the Department of Education be fixed temporarily, and until further modified, in accordance with the following list:

Title and School.	Compensation.
Janitor, 37, Borough of Brooklyn	$1,836 00 per annum
Janitor, 22, Borough of Brooklyn	90 00 per month
Janitor (J. S. H.), 32 (Annex), Borough of The Bronx	884 00 per annum
........, 15, Borough of The Bronx (for care of portable buildings)	720 00 per annum
........, 66, Borough of Manhattan (for temporary care of Public School 30)	292 00 per month
Janitor, Jamaica High School	1,080 00 per annum
Janitor, in any school having bath, which is used in connection with a summer playground	$1 per session, extra

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Commissioner of Parks, Boroughs of Brooklyn and Queens, referring to a resolution of the Board of Aldermen requesting the establishment of the grades of positions of Gardener in Charge, at $115 per month, and Gardener, at $90 per month, and stating that he is in favor of increasing the compensation of skilled men performing such work, and will request an appropriation for this purpose in the Budget estimate for his Department for the year 1912.

Which was ordered filed and the Secretary directed to transmit a copy thereof to the Board of Aldermen and William Dilm, Secretary, Special Committee of Gardeners in Greater New York.

(On July 6, 1911, a report of the Committee on Salaries and Grades, relative to the above resolution of the Board of Aldermen, and to a communication from the Secretary of a Special Committee of Gardeners in Greater New York, was referred to the Commissioners of Parks, for such action as they deemed proper.)

The Secretary presented a report of the Commissioner of Parks, Boroughs of Brooklyn and Queens, referring to a communication from the New York Per Diem Men's Civil Service Association and the New York Civil Service Association, relative to equalizing the wages of Foremen in the Park Department in the above boroughs, and stating that he has considered the compensation of these employees inadequate and will renew a request for an appropriation to increase their salaries in the Budget estimate for his Department for the year 1912.

Which was ordered filed and the Secretary directed to transmit a copy thereof to the above-named associations.

(On July 6, 1911, a report of the Committee on Salaries and Grades, recommending that the communications from the above associations be referred to the Commissioner for such action as he deemed proper, was presented and referred accordingly.)

The Secretary presented the following communication from the Acting President of the Borough of Queens, transmitting a report of the Engineer in Charge of Highways concerning certain public thoroughfares, with a request that the Board adopt such thoroughfares as City highways, to be repaired and maintained until officially mapped and physically improved at the expense of the City at large, together with a report of the Chief Engineer of the Board and a report of Consulting Engineers of the various boroughs relative thereto:

The City of New York, Offices, Commissioner of Public Works of the Borough of Queens, Long Island City, July 15, 1911.

JOSEPH HAAG, Esq., *Secretary, Board of Estimate and Apportionment:*

Dear Sir—Herewith I transmit a report of the Engineer in Charge of Highways, containing a list of streets which are also shown on the accompanying map, which

I request the Board of Estimate and Apportionment to adopt as City highways to be repaved and maintained as such until officially mapped, physically opened, and a complete paving authorized by the Board as an assessment matter. The present pavement is to be laid to a width not exceeding 25 feet, of a character best suited to withstand the amount of travel to be accommodated. I also submit separate resolutions for adoption in each case. Respectfully,

WALTER H. BUNN, Commissioner of Public Works, and Acting President of the Borough of Queens.

July 10, 1911.

Hon. LAWRENCE GRESSER, *President of the Borough of Queens:*

Dear Sir—In further reference to our most recent interview regarding the improvement of thoroughfares in Queens County, I feel that the time is ripe for you to make a request on the Board of Estimate and Apportionment to temporarily assume this burden, making the construction and maintenance of the through highways a City matter.

Claim has been made that these highways should be kept up by the maintenance bureau of the Borough of Queens. Most or all of these highways have outlived the average life of the water-bound macadam road and effective patching is out of the question in many cases, furthermore it is poor policy from an economical standpoint to further patch these worn out highways; what is needed is reconstruction along more modern lines; the rebuilding of these pavements by methods and with material suitable to withstand changed conditions. On account of the worn out condition of these highways, the patching of them so as to keep them in a travelable condition is beyond the capacity of the maintenance force as provided for in the Budget.

Again claim has been made by others that these thoroughfares should be rebuilt by assessing the cost on the adjoining property. The highways which I now have in mind and which are included in the accompanying list are mostly unmapped, crooked, narrow county roads, not having any fixed widths or established grades other than those established by user. They are yet to be mapped in all but a few cases, and when mapped they are, or will be, shown as widened streets, or as abandoned streets, because of the fact that in many cases they are not adapted to a possible street system and are entirely out of harmony with the same. These highways, however, cannot be abandoned at once, but must be kept up to afford means of communication through the County and between sections of the County until such time as a City street system is not only adopted, but is physically opened and improved on the ground, then and then only can these streets be closed to traffic. It is therefore a fact that after mapping, streets must first be legally opened and then be physically changed as to lines and grades, and according to our system of doing things in this City, the subsurface improvements should be placed before the final pavement for the full width of the street is laid. I would also call attention in connection with this matter that in the majority of the cases, if streets were graded to conform with the street system, the grading would so change the manner and points of collection of surface drainage as to make a storm water sewer system necessary. While the flow and collection of storm water under natural conditions to their present points of collection cause no complaint, or very little, the changed collection to new points would undoubtedly seriously affect properties that now have no water draining upon them, and unless the City were prepared to take care of such collections by means of sewers, disputes and claims for damages would undoubtedly arise. The property facing upon these streets should not be relieved from assessment for paving, but the pavement which they should be assessed for is the final pavement placed for the full width of the street from curb to curb with all subsurface improvements in place. In the meantime the City at large should provide the pavement of sufficient width to properly accommodate the travel.

Again claim has been made by others that the cost of the present macadam pavements were made by the issue of bonds which were assumed in whole or in part by the City at large at the time of consolidation, and that therefore they should not be repaved out of the repaving fund. It seems entirely proper that the City at large should have paid for these improvements, for they bear the same relation to the City as do the state roads of Nassau County to the State, and it would be fair to assume that the State would have paid and maintained the greater portion or all of the highways contained in the accompanying list were they not within the limits of the Greater City.

The travel upon these highways is mostly through travel from Manhattan and Brooklyn into Nassau County, the local traffic being a very, very small percentage of the entire travel upon them, and for this reason the City at large should maintain these highways until these streets are either abandoned or until they become a part of the regular street system of the City.

Again claim has been made by some that in a few instances like the College Point causeway and Jackson avenue the grading of the streets along adopted lines and grades has buried the pavement and therefore a new pavement on this fill should not be properly classed as repaving. Wherein does this case differ from the repaving of streets in Manhattan, where the sheet asphalt paving had been laid upon depressed granite blocks and where in the repaving the entire paving to the bare earth was removed and a new concrete foundation laid in the act of repaving, or wherein does it differ from the streets in Brooklyn, which were paved with cobble stones which in the act of repaving were removed and a concrete foundation laid for sheet asphalt? There is more or less regulating whenever the type of pavement is changed, but still when a street was once paved, a second paving is a repaving, regardless as to whether the grade of the street is changed or not.

In the opinion of the Corporation Counsel submitted to you relative to the repaving of Jackson avenue, we have been advised that the Board of Estimate and Apportionment has authority to authorize the paving or repaving of any streets. It therefore appears to me that this is the key to the situation, and I would suggest that an endeavor be made to have the Board of Estimate and Apportionment pass resolutions adopting the accompanying list of streets as City highways to be paved and maintained as a City charge, the pavement to be laid to such width, as travel may demand, ranging from 18 to 25 feet, the expense thereof to be charged against the repaving fund or any other fund that may be appropriated for the purpose.

On the main through highways a first-class pavement should be laid on a concrete foundation, while on some of the minor highways a bitulithic macadam should be used. The first cost of a high-class pavement will be greater, but the economy in maintenance will within the life of these pavements make them the most economical to the City and they will afford greater comfort to travel and a large saving in maintenance on vehicles, thereby further justifying their use. Let it be understood and be made a part of the preamble to the resolution, if you like, that the property owners are not to be relieved from bearing one full assessment when the street is in condition to receive its permanent pavement for the full width of the street.

I would further suggest that a resolution be adopted authorizing you to repave at once, chargeable against the repaving fund, those portions of the highways contained in the following list, which must require immediate attention.

Herewith I submit a list of streets which should be classed and adopted as *City Highways,* to be paved and maintained at the expense of the City at large until such time as it may be possible to replace them with a City street system.

Respectfully, J. H. WEINBERGER, Engineer in Charge.

List of streets to be paved and maintained by the City at large, until the City street system replaces them:

Flushing and Astoria road, Long Island City line to Jackson avenue; Jackson avenue, Woodside avenue to Flushing Creek; Laurel Hill boulevard, Shell road and Flushing and Newtown turnpike, Newtown Creek to Jackson avenue; Grand street, Newtown Creek to Hoffman boulevard; Metropolitan avenue, Newtown Creek to Jamaica avenue; Myrtle avenue, Cooper avenue to Jamaica avenue; Cooper avenue, Kings County line to Trotting Course lane; Trotting Course lane, Woodhaven avenue, Hoffman boulevard to Rockaway Plank road; Thomson avenue and Hoffman boulevard, Jackson avenue to Jamaica avenue; North Hempstead Plank road, Strongs Causeway, Hempstead Plank road, Hoffman boulevard to Queens road; Main street, Flushing and Jamaica road, Broadway to Hillside avenue; Parsons avenue and Queens road, Broadway to Jamaica, Hempstead turnpike; Bell avenue and Rocky Hill road, Willetts Point road to Jericho turnpike; Little Neck road, Broadway to Jericho turnpike; 13th street, College Point Causeway, Lawrence street, North boulevard to North Hempstead turnpike; 3d avenue and 18th street, Flushing Bay to Bayside avenue; Whitestone avenue, Broadway to 18th street; 4th street and Willetts Point road, Whitestone avenue to Rocky Hill road; 11th avenue and Whitestone road, Boulevard to Broadway; Broadway, Flushing Creek to City line; Union turnpike, Metropolitan avenue to Jamaica Flushing road; Hillside avenue, Myrtle avenue to Rocky Hill road; Jamaica and Hempstead turnpike, Kings County line to City line; Jericho turnpike, Jamaica Hempstead turnpike to City line; Broadway and Liberty avenue, Kings County line to Rockaway road; Rockaway Plank road, Elderts lane to Rockaway road; Alsop street, Rockaway road, Hillside avenue to Hook Creek; Bergen avenue and Merrick road, Hillside avenue to City line; Central avenue, Merrick road to City line; Locust avenue, Rockaway road to Farmers avenue; Farmers avenue, Rockaway road to Jamaica Hempstead turnpike;

Springfield road, Lincoln avenue, Rockaway road to Hillside avenue, Washington avenue, Boulevard, 5th avenue to Nortons Creek; Atlantic avenue, Sea View avenue, Cornaga avenue, Rockaway turnpike, Broadway, Nortons Creek to McNeil avenue.

Board of Estimate and Apportionment, City of New York, Office of the Chief Engineer, 277 Broadway, July 20, 1911.

Hon. William J. Gaynor, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Under date of July 15, 1911, the Commissioner of Public Works and Acting President of the Borough of Queens has addressed a communication to the Board of Estimate and Apportionment submitting a report of the Borough Engineer in Charge of Highways, with a list of 34 highways which he asks the Board "to adopt as City highways to be repaved and maintained as such until officially mapped, physically opened and a complete pavement authorized by the Board as an assessment matter." This communication was at the meeting of the Board held on July 20, 1911, referred to the Chief Engineer of the Board and the Consulting Engineers of the various boroughs.

Some of the highways named, while continuous, include two or more roads with different names, and their total length is said to be about 115 miles. The recommendation of the Acting Borough President is that, inasmuch as many of these highways have not yet been included in the City plan, and as their final location may differ from their present position, and as the abutting property is largely unimproved and cannot stand an assessment for a substantial pavement, and as these highways are extensively used and their maintenance in good condition is essential for the further development of the Borough of Queens, the only plan which seems feasible is for the City to assume the care of these roads as City streets and to place upon them such pavement as will sustain the existing traffic until the time arrives when they can in their final positions be substantially paved at the expense of the abutting property owners.

The condition of the highways in the Borough of Queens is admittedly most unsatisfactory and has been the occasion of severe criticism by all who have had occasion to use them. The appropriations allowed for the maintenance of existing highways have been wholly inadequate for the care, maintenance and renewal of the system of county roads which was in existence in the Borough of Queens at the time it became a part of the Greater City. The solution proposed by the Acting Borough President would be an easy one for the Borough authorities, but it would involve the appropriation of a large sum of money, anywhere from $1,500,000 to $3,000,000, depending upon the kind of pavement to be used. The highways included in the list submitted with his letter are of two general classes: First, those which have already been officially mapped or are included within the lines of streets officialy mapped, although they may not cover the entire width of such streets. Second, those which have not been mapped or are not included within territory or individual streets already mapped either by local authorities before consolidation or by The City of New York. Assuming that any pavements which might be laid at the public expense would not operate to relieve the abutting owners from the obligation of paying for one substantial pavement covering the entire width of the street, there appear to be good reasons why the general plan proposed by the Acting Borough President should be adopted. There are, however, some very objectionable features of the plan as outlined in his communication, especially that which provides that the highways should be "repaved and maintained as such until officially mapped, physically opened, and a complete paving authorized by the Board as an assessment matter." If the abutttng owners saw a possibility of having the existing highways well paved and maintained, it is extremely probable that the official mapping and the legal opening of these streets would be vigorously opposed in order to save expense to the abutting owners. One of the most serious defects in the development of the outlaying portions of the City has been the failure to fix the lines of what are destined to be important arteries of traffic, giving them an adequate width, and to acquire title to the property required for their ultimate width. Delay in doing this has resulted in the development of the abutting property to such an extent that much needed widenings have been almost prohibitive on account of the expense, and have had to be abandoned. These conditions exist in a marked degree in the Borough of Queens at the present time. There are a great number of highways which will of necessity be the traffic arteries of a great City. No serious effort has been made to establish proper City streets along the lines of these highways, straightening and widening them where necessary and acquiring the property while it is unimproved. I believe, therefore, that the adoption of any such plan as is proposed by the Acting Borough President should be predicated upon the mapping of every one of the streets to be so improved at a width adequate for the future development of the Borough, and the immediate institution of proceedings to acquire the property for the full width of the streets. If the abutting property owners are only asked at the present time to meet the expense of acquiring land so cheap that it is unable to stand an assessment for the improvement of the street, and if the City would then be willing to furnish a substantial pavement for a portion of the width of that street until the property shall have been so developed and its value shall have been so increased as to enable it to pay an assessment for the full improvement of the street, it seems to me that the property owners of the Borough would be treated with extreme liberality, and an opportunity would be offered them to secure a system of streets which would become the traffic arteries of the future city at a minimum of expense.

To simply adopt 115 miles of country roads as City streets and furnish several millions of dollars for their improvement on their present lines, would be unwise, but in my opinion a modified form of the plan suggested by the Borough President might be proper and advantageous. If the Board should approve of this plan, it would seem only proper that it be on condition that the President of the Borough submit to the Board of Estimate and Apportionment for its approval a contract and specification for the paving of each one of these streets before bids are asked for the work.

I have prepared a form of resolution which is designed to carry this plan into effect, and beg to submit it herewith for the consideration of the Board.

Respectfully, NELSON P. LEWIS, Chief Engineer.

Whereas, There are in the Borough of Queens a large number of thoroughfares in general use, some of which have been important highways for many years, and many of which have not yet been mapped; and

Whereas, The traffic on these thoroughfares is so heavy as to require a more substantial pavement than water-bound macadam; and

Whereas, The abutting property is largely undeveloped and is not of sufficient value to justify an assessment for a substantial and permanent pavement; and

Whereas, Such permanent pavement if laid at the present time and on the present roadways will not conform with the final lines and grades on these streets; and

Whereas, The laying of a bituminous macadam, and in some cases a more substantial pavement is necessary for the accommodation of existing traffic and for the further development of the Borough until such time as the abutting property on these streets can be assessed for the full cost of one permanent pavement; and

Whereas, The Acting President of the Borough of Queens has under date of July 15, 1911, submitted a list of thoroughfares which he believes should be paved as City highways for a portion of their width, the cost of such paving to be paid from appropriations made for that purpose, and should be maintained as City highways until the said streets shall have been officially mapped and physically opened, and a complete pavement shall be authorized by the Board as an assessable improvement, with the understanding that such preliminary pavement shall not relieve the abutting property owners from the obligation to pay the expense of at least one substantial pavement for the full width of each street; and

Whereas, The Board realizes the difficulty of maintaining the existing roads in the Borough of Queens with the heavy traffic to which they are subjected, and the inability of the undeveloped abutting property on many of the said roads to meet an assessment for a substantial pavement at the full width of a city street; therefore, be it

Resolved, That the Board of Estimate and Apportionment do, and it hereby does, authorize the President of the Borough of Queens to expend any portion of such sums as may be allowed either by an issue of Corporate Stock, by the issue of Special Revenue Bonds, or by Budgetary Appropriation, for the rebuilding or repairing of any of the highways hereinafter named, provided that the said highways shall have already been laid out upon the map of The City of New York, or where not already laid out, that the Board of Estimate and Apportionment shall have first approved a plan submitted by the President of the Borough of Queens laying out such highways, and shall have instituted proceedings to acquire title to the full width of the streets as so mapped, and provided, further, that the said Borough President shall, before asking for bids for the improvement of any of the said streets, submit to the Board the proposed form of contract and specification for such improvement; and be it further

Resolved, That the Board of Estimate and Apportionment in authorizing the improvement without assessment of the highways hereinafter mentioned, does so with the distinct understanding that such improvement is authorized at the present time in order to facilitate traffic and to stimulate the further development of the

Borough of Queens, and that such improvement shall not operate to relieve the abutting property owners from the expense of the laying of at least one permanent or Class A pavement and for the complete improvement of the said highways when the property shall have been sufficiently developed to justify such improvement; and be it also

Resolved, That the highways designated for improvement under these resolutions be as follows:

The Flushing and Astoria road, from Long Island City to Jackson avenue; Jackson avenue from Woodside avenue to Flushing Creek; Thompson avenue and Hoffman Boulevard, from Jackson avenue to Jamaica avenue; The Merrick road, from Hillside avenue to the City line; Central avenue, from The Merrick road to the City line; Broadway, from Flushing Creek to the City line; Rockaway Plank road, from Eldert's lane to Rockaway road; Trotting Course lane and Woodhaven avenue, from Hoffman boulevard to Rockaway Plank road; Jamaica and Hempstead turnpike, from Kings County line to the City line; Grand street, from Newton Creek to Jamaica avenue; Cooper avenue, from Kings County line to Trotting Course lane, or such other or additional highways as may be agreed upon.

Office of Commissioner of Public Works, Borough of Manhattan, 21 Park Row, New York City, July 25, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—The following report is submitted in compliance with the request of the Board of Estimate and Apportionment at its meeting of July 20, 1911, at which time was presented to it a report from the Acting President of the Borough of Queens with regard to a request that the City adopt as Highways certain public thoroughfares for the purpose of repaving and maintenance until such time as the streets have been acquired and all improvements installed, at which time a pavement for the full width can be assessed upon the abutting property.

This matter was referred to the Chief Engineer of the Board jointly with the Consulting Engineers of the various Boroughs. Because of intended absence from the city, the Chief Engineer of the Board submitted a separate report accompanied by resolutions. Copies of such report and resolutions are transmitted herewith.

In making their recommendations the Consulting Engineers considered in detail the recommendations of the Chief Engineer of the Board, with whom they agree in all but a few minor items. At the suggestion of the Consulting Engineers, the Engineer in Charge of Highways, Borough of Queens, has withdrawn from the consideration of the Board certain roads which were included in the original request. The Consulting Engineers discussel at considerable length the quality and character of the preliminary pavement which should be installed for each section of each highway and special recommendations are included in this report as to this matter. These special recommendations were made so as to make it possible for the Borough authorities to expedite as much as possible the preparation of plans and specifications, so as to obviate the necessity of submitting such specifications for specific approval of your Board.

The Consulting Engineers agree heartily in principle with the Chief Engineer of the Board as to the propriety of requiring that all streets be legally mapped and title acquired before moneys are spent upon them, but in view of conditions of traffic and the present condition of the pavement itself, the Consulting Engineers have deemed it advisable that a few of the roads originally suggested by the Engineer in Charge of Highways, Borough of Queens, should be repaved under the authority of the Board now asked, even though the Topographical Bureau has not yet completed maps establishing the lines and grades of those thoroughfares. This recommendation is made, however, upon the express stipulation that the President of the Borough of Queens will not ask for further authorizations beyond those now to be granted for improvement of the special highways mentioned in this report, until the latter have been officially mapped.

It is believed that the ideas of the Chief Engineer of the Board are fully covered by the stipulation that no further appropriations be requested till all streets are properly mapped and title acquired.

It is further recommended that the Board of Estimate and Apportionment proceed immediately to take the necessary steps to acquire title to all streets upon which moneys are to be spent. It is the opinion of the Consulting Engineers that by requiring the mapping and the initiation of opening proceedings of the streets at this time (before further authorizations are granted for improvement of highways) more money will be saved than will be expended in special improvement work under this authorization. In this connection it is understood that no other appropriations beyond those already granted by your Board for repaving purposes in the Borough of Queens are involved in the present request from the authorities of that Borough.

The condition of the highways in the Borough of Queens has been made a special subject of personal examination by the Consulting Engineers and the recommendations carried in the attached resolutions are the outcome of such examination.

Respectfully submitted,

E. P. GOODRICH, Consulting Engineer, Borough of Manhattan; GEO. W. TILLSON, Consulting Engineer, Borough of Brooklyn; AMOS L. SCHAEFFER, Consulting Engineer, Borough of The Bronx; LEONARD C. L. SMITH, Consulting Engineer, Borough of Queens; THEODOR S. OXHOLM, Acting Consulting Engineer, Borough of Richmond.

The following was offered:

Whereas, There are in the Borough of Queens a large number of thoroughfares in general use, some of which have been important highways for many years, and many of which have not yet been mapped; and,

Whereas, The traffic on those thoroughfares is so heavy as to require a more substantial pavement than waterbound macadam; and,

Whereas, The abutting property is largely undeveloped and is not of sufficient value to justify an assessment for a substantial and permanent pavement; and,

Whereas, Such permanent pavement, if laid at the present time, and on the present roadways, will not conform with the final lines and grades of these streets; and

Whereas, The laying of a bituminous macadam, and in some cases a more substantial pavement, is necessary for the accommodation of existing traffic and for the further development of the Borough until such time as the abutting property on these streets can be assessed for the full cost of one permanent pavement; and

Whereas, The Acting President of the Borough of Queens has, under date of July 15, 1911, submitted a list of thoroughfares which he believes should be paved as city highways for a portion of their width, the cost of such paving to be paid from appropriations made for that purpose, and should be maintained as city highways until the said streets shall have been officially mapped and physically opened, and a complete pavement shall be authorized by the Board as an assessable improvement, with the understanding that such preliminary pavement shall not relieve the abutting property owners from the obligation to pay the expenses of at least one substantial pavement for the full width of each street; and,

Whereas, The Board realizes the difficulty of maintaining the existing roads in the Borough of Queens with the heavy traffic to which they are subjected, and the inability of the undeveloped abutting property on many of the said roads to meet an assessment for a substantial pavement at the full width of a city street; therefore be it

Resolved, That the Board of Estimate and Apportionment do, and it hereby does authorize the President of the Borough of Queens to expend any portion of such sums as have been heretofore authorized for the rebuilding or repairing of the highways hereinafter named; and, be it further

Resolved, That before any future appropriation is requested by the President of the Borough of Queens for the rebuilding or repairing of any highway, such highway shall have already been laid out upon the map of The City of New York and proceedings shall have been instituted to acquire title to the full width of the highway, as mapped; and be it further

Resolved, That the Board of Estimate and Apportionment in authorizing the improvement without assessment of the highways hereinafter mentioned, does so with the distinct understanding that such improvement is authorized at the present time in order to facilitate traffic and to stimulate the further development of the Borough of Queens, and that such improvement shall not operate to relieve the abutting property owners from the expense of the laying of at least one permanent or Class A pavement, and for the complete improvement of the said highways when property shall have been sufficiently developed to justify such improvement; and be it further

Resolved, That the President of the Borough of Queens be, and he is hereby authorized to advertise for bids for regulating, grading and repairing with improved granite blocks on sand cushion on macadam foundation sand joints, those pavements listed below in Class A, except that those portions of Metropolitan avenue, from Newtown creek to Fulton street which are to be repaved are to be supplied with a concrete foundation, all to a width not to exceed twenty-five (25) feet; and be it further

Resolved, That the President of the Borough of Queens be, and he is hereby authorized to advertise for bids for regulating, grading and repaving with bitulithic concrete upon macadam foundation (Topeka Sterling specifications), and with bitulithic concrete laid under the patents of the Warren Brothers, and with bitulithic laid under the patents of the Amiesite Company, the pavements listed in Class B of the list below, this Board being of the opinion that the conditions set forth in the form of contract and specifications will secure, as required by section 1554 of the Charter, a fair and reasonable opportunity for competition between the several varieties of pavement mentioned, and, accordingly, the Board of Estimate and Apportionment prescribes that the conditions set forth in the form of proposals for bids or estimates, bond, contract and specifications shall be the conditions under which the said patented pavements shall be advertised for, such pavements to be laid to a width not to exceed eighteen (18) feet; and be it further

Resolved, That the President of the Borough of Queens be, and he is hereby authorized to advertise for bids for regulating, grading and repaving with bitulithic concrete upon macadam foundation (Topeka Sterling specifications), and with bitulithic concrete laid under the patents of the Warren Brothers, and with bitulithic laid under the patents of the Amiesite Company, the pavements listed in Class C of the list below, such pavements not yet having been legally mapped and opened upon the express conditions stipulated above for such streets, such pavements to be laid to a width not to exceed eighteen (18) feet; and be it further

Resolved, That the President of the Borough of Queens be and he is hereby authorized to advertise for bids for relaying the present granite block pavement on such portions of Grand street, between Newtown creek and Flushing avenue, as require same; and be it further

Resolved, That the highways designated for improvement under these resolutions be as follows:

CLASS A.

Jackson avenue, Woodside avenue to Flushing river; Broadway, Flushing river to City line; Thompson avenue and Hoffman boulevard, Jackson avenue to Fulton street; Metropolitan avenue, Newtown creek to Fulton street.

CLASS B.

Flushing and Astoria road, Bowery Bay road to Jackson avenue; College Point Causeway, Broadway to 13th avenue, College Point; Lawrence street, Broadway to North Hempstead turnpike; Woodhaven avenue, Hoffman boulevard to Rockaway plank road; Laurel Hill boulevard, Shell road, Newtown turnpike, Newtown creek to Jackson avenue; Cooper avenue, Kings County line to Woodhaven avenue; Broadway and Liberty avenue, Kings County line to Rockaway road.

CLASS C.

Merrick road, Hillside avenue to City line; Hempstead and Jamaica turnpike, Grand street to City line; Little Neck road, Broadway to Floral Park road; Floral Park road, Little Neck road to City line (State road under construction); Rockaway plank road, Kings County line to Rockaway road; Central avenue, Merrick road to City line

—and, be it further

Resolved, That the President of the Borough of Queens proceed forthwith to map all streets herein mentioned which are not already laid out on the map of The City of New York, and that the Secretary of the Board of Estimate and Apportionment is hereby directed to prepare and submit, as soon as legal conditions have been met, proper resolutions to institute proceedings for acquiring title to all streets herein mentioned.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Court of General Sessions requesting, and report of the Comptroller relative to, the modification of Salary Schedule 1970, supporting the appropriation made in the Budget for the year 1911, for said court, to provide for the increase in salary of a Deputy Clerk from $3,000 to $4,000 per annum:

Court of General Sessions of the Peace, June 16, 1911.

Board of Estimate and Apportionment, New York City:

Gentlemen—Under the provisions of chapter 412 of the Laws of 1907, the Judges of the Court of General Sessions were authorized to appoint "not more than eleven Deputy Clerks," and the Comptroller was authorized to pay such Deputy Clerks such salaries "as is now provided by law."

Upon June 28, 1907, the Board of Estimate and Apportionment recommended to the Board of Aldermen that the salary of Deputy Clerks of the Court of General Sessions be fixed at the sum of $4,000 per annum, which recommendation was subsequently approved and adopted by the Board of Aldermen.

Mr. Richard Tone Pettit was, under date of April 6, 1908, transferred from the position of Assistant Special Deputy Clerk of the Supreme Court to the position of Deputy Clerk of the Court of General Sessions, with salary at the rate of $3,000 per annum. At the time of his transfer he was not eligible to the salary of $4,000 per annum, under the State Civil Service Rules, but since has become eligible to receive that rate of compensation. His duties as Deputy Clerk in this Court are identical with the duties of all other Deputy Clerks in said Court; and it is the desire of the Judges of the Court of General Sessions that his compensation be fixed at the same amount received by the other Deputy Clerks, to wit, $4,000.

Request is therefore made upon the Board of Estimate and Apportionment that recommendation be made to the Board of Aldermen for the fixing of the salaries of the Deputy Clerks of this Court at $4,000 per annum, for eleven incumbents, and that the salary schedule supporting the appropriation for said Court for the year 1911 be modified by eliminating the items "Deputy Clerks, 10 at $4,000, $40,000; Deputy Clerk, $3,000," and substituting in place thereof "Deputy Clerks, 11 at $4,000, $44,000," thereby reducing the unassigned balance from $2,100 to $1,100. This additional grade and modification of salary schedule will not increase the amount appropriated for the Court for the year 1911. Very respectfully yours,

THOMAS C. O'SULLIVAN, JAMES T. MALONE, OTTO A. ROSALSKY, EDWARD SWANN, JOSEPH F. MULQUEEN, Judges of the Court of General Sessions.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 16, 1911, the Judges of the Court of General Sessions requested modification of the salary schedule for the court for the year 1911. In connection therewith I report as follows:

Chapter 412 of the Laws of 1907 provides that the Judges of the Court of General Sessions may appoint "not more than eleven Deputy Clerks." There are ten Deputies, at $4,000 per annum each. The modification is proposed for Richard Tone Pettit, who was transferred on April 6, 1908, from the position of Assistant Deputy Clerk of the Supreme Court to the position of Deputy Clerk of the Court of General Sessions, at the rate of $3,000 per annum. Mr. Pettit was not then eligible under the State Civil Service Rules for the $4,000 rate. He has become eligible and it is therefore proposed to promote him to the grade. His duties are similar to those of the other Deputy Clerks of the Court. The funds for the increase are available in an unassigned balance.

The additional grade of Deputy Clerk at $4,000, to provide for the increase, was established on July 18, 1911, pursuant to the provisions of section 56 of the Greater New York Charter.

The following tables shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1970.	Deputy Clerks, 10 at $4,0000.	....	$4,000 00	....	$2,000 00
	Deputy Clerk, 1 at $3,000....	$3,000 00	....	$1,500 00	....
	Balance unassigned, $2,100..	1,000 00	....	500 00	....
		$4,000 00	$4,000 00	$2,000 00	$2,000 00

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the office of the Court of General Sessions, County of New York, for the year 1911, as follows:

Court of General Sessions, County of New York.

1970. Salaries:	
Judges, 7 at $15,000	$105,000 00
Clerk	5,000 00
Deputy Clerks, 11 at $4,000	44,000 00
Assistant Clerk	4,000 00
Record Clerks, 9 at $2,000	18,000 00
Stenographers, 6 at $2,500	15,000 00
Interpreters, 5 at $2,000	10,000 00
Warden Grand Jury	2,000 00
Attendants, 56 at $1,800	100,800 00
Attendants, 5 at $1,500	7,500 00
Attendant, 1 at $1,200	1,200 00
Unassigned balance	1,100 00
	$313,600 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the President of the Borough of Manhattan requesting, and report of the Comptroller recommending, the modification of Salary Schedule 1704, supporting the appropriation made in the Budget for the year 1911, for the office of said Borough President, providing for the elemination of a Clerk at $1,500 per annum and the addition of five Clerks at $300 each per annum, said modification to be effective as of August 1, 1911:

City of New York, Office of the President of the Borough of Manhattan, City Hall, July 18, 1911.

Joseph Haag, Esq., *Secretary of Board of Estimate and Apportionment,* 299 Broadway, New York City:

Dear Sir—Request is hereby made that the supporting schedules, attached to the budget of the President of the Borough of Manhattan for the year 1911, be amended so as to read as follows:

Bureau of Buildings, Administration

1704—Salaries—	
Superintendent	$6,000 00
Assistant Superintendent	4,000 00
Secretary to Superintendent	2,500 00
Clerk	2,100 00
Clerks, 4 at $1,800	7,200 00
Clerks, 2 at $1,650	3,300 00
Clerks, 6 at $1,500	9,000 00
Clerks, 2 at $1,350	2,700 00
Clerks, 7 at $1,200	8,400 00
Clerks, 7 at $1,050	7,350 00
Clerk, 1 at $900	900 00
Clerks, 5 at $300	1,500 00
Confidential Stenographer	1,800 00
Stenographers and Typewriters, 2 at $1,500	3,000 00
Stenographers and Typewriters, 3 at $1,200	3,600 00
Stenographers and Typewriters, 2 at $1,050	2,100 00
Typewriting Copyists, 12 at $720	8,640 00
Cleaners, 5 at $400	2,000 00
Telephone Operator	900 00
Watchmen, 3 at $600	1,800 00
Automobile Engineman	1,200 00
	$79,990 00

The only change is in the substitution of five (5) Clerks at $300 for one (1) Clerk at $1,500. The total of the schedule remains unchanged, so that no transfer of funds is necessary. It is requested that the resolution be made effective as of August 1, 1911.

Very truly yours,

GEORGE McANENY, President, Borough of Manhattan.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 18, 1911, the President of the Borough of Manhattan requested modification of the salary schedule for the Bureau of Buildings, Administration No. 1704, in his office for the year 1911. In connection therewith I report as follows:

It is proposed to strike out a Clerk at $1,500 per annum and add five Clerks, at $300 per annum each. The Superintendent of Buildings states that the employment of the five clerks at the low rate will facilitate business in the Bureau. The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1704.	Clerks, 7 at $1,500	$1,500 00		$625 00	
	Clerks, 5 at $300		$1,500 00		$625 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Manhattan, for the year 1911, to take effect as of August 1, 1911, as follows:

President of the Borough of Manhattan.

Bureau of Buildings, Administration—

1704. Salaries:

Superintendent	$6,000 00
Assistant Superintendent	4,000 00
Secretary to Superintendent	2,500 00
Clerk	2,100 00
Clerks, 4 at $1,800	7,200 00
Clerks, 2 at $1,650	3,300 00
Clerks, 6 at $1,500	9,000 00
Clerks, 2 at $1,350	,2700 00
Clerks, 7 at $1,200	8,400 00
Clerks, 7 at $1,050	7,350 00
Clerk, 1 at $900	900 00
Clerks, 5 at $300	1,500 00
Confidential Stenographer	1,800 00
Stenographers and Typewriters, 2 at $1,500	3,000 00
Stenographers and Typewriters, 3 at $1,200	3,600 00
Stenographers and Typewriters, 2 at $1,050	2,100 00
Typewriting Copyists, 12 at $720	8,640 00
Cleaners, 5 at $400	2,000 00
Telephone Operator	900 00
Watchmen, 3 at $600	1,800 00
Automobile Engineman	1,200 00
	$79,990 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Acting President of the Borough of Queens requesting and report of the Comptroller recommending, approval of the schedule of wages of Temporary Employees, Bureau of Highways, Borough of Queens, Engineering and Inspection Division, Corporate Stock and Assessment Force, providing for twenty Inspectors of Regulating, Grading and Paving, at $4 per diem each:

The City of New York, Office of the President of the Borough of Queens, Long Island City, June 15, 1911.

William A. Prendergast, Esq., *Comptroller, City of New York,* New York, N. Y.:

Dear Sir—Confirming our application of May 24, 1911, and the several conversations with your representatives, in relation thereto, we now beg to inform you that pursuant to your recommendations, the Board of Estimate and Apportionment, by resolution of June 8, 1911, the Board of Aldermen concurring therein, by resolution of June 27, 1911, the position of Inspector of Regulating, Grading and Paving, at $4 per diem, for twenty (20) incumbents, became a law, without the approval or disapproval of his Honor the Mayor, on June 11, 1911.

We would, therefore, thank you to take such action as is necessary to have the Board of Estimate and Apportionment approve the new schedule of positions, to be entitled: "President of the Borough of Queens, Bureau of Highways, Engineering and Inspection, Inspectors of Regulating, Grading and Paving, twenty (20) at $4 per diem," incumbents thereof to be paid from any funds, other than appropriation funds, against which the work they may be employed upon are properly chargeable.

Immediate action on your part would greatly facilitate improvement work in this Borough. Yours respectfully,

WALTER H. BUNN, Acting President of the Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 15, 1911, the Acting Borough President of the Borough of Queens requested approval of a schedule in his office for the position of Inspector of Regulating, Grading and Paving, at $4 per diem, for 20 incumbents. In connection therewith I report as follows:

On June 8, 1911, the Board of Estimate and Apportionment approved of the establishment, pursuant to the provisions of section 56 of the Greater New York Charter, of the grade of position of Inspector of Regulating, Grading and Paving, at the $4 rate and for the 20 incumbents. On June 27, 1911, the Board of Aldermen fixed the grade. Grades for Inspector are established in the office from $1,050 to $1,650 per annum, for an unlimited number of incumbents, and at $4 per diem for one incumbent. The Acting President states that the per diem rate is for temporary employees, on account of many contracts for regulating, grading and paving work. The Inspectors are to be employed in the Engineering and Inspection Division of the Bureau of Highways. It is proposed to pay the incumbents from the corporate stock or assessment funds, according to the character of the work.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule of wages paid from other than Budget funds in the office of the President of the Borough of Queens for the year 1911, as follows:

President, Borough of Queens.

Bureau of Highways, Engineering and Inspection Division—
Wages, Temporary Employees, Corporate Stock and Assessment Force:
Inspectors of Regulating, Grading and Paving, 20 at $4 per diem.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Deputy Register of Kings County requesting, and report of the Comptroller recommending, the modification of Salary Schedule 2077, supporting the appropriation made in the Budget for the year 1911 for the office of the Register of Kings County, providing for a change in title of Clerk at $1,200 per annum to Executive Clerk at the same rate:

Office of the Register of Kings County, Hall of Records, Borough of Brooklyn, New York City, April 29, 1911.

Honorable Board of Estimate and Apportionment, New York City:

Dear Sirs—I desire to establish the position of Executive Clerk at an annual salary of $1,200 per annum in this office, as such a position is necessary.

As the establishment of this grade will not involve any additional expense to the City, I respectfully ask that the following modification be made in the Budget schedule lines for the current year:

To insert a line reading, Executive Clerk, $1,200. To change the line reading 14 Clerks at $1,200 so as to read 13 Clerks at $1,200.

Awaiting your favorable action, believe me,

Yours very truly, JAMES S. REGAN, Deputy Register.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 29, 1911, the Register of Kings County requested modification of a salary schedule in his office for the year 1911. In connection therewith I report as follows:

The request is in No. 2077, General Administration, and involves only a change in title for a Clerk, at $1,200 per annum, to Executive Clerk at the same rate. The grade for the new title was established on July 18, 1911, pursuant to the provisions of section 56 of the Greater New York Charter. The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
2077.	Clerks, 14 at $1,200..........	$1,200 00	....	$500 00	....
	Executive Clerk.............	....	$1,200 00	....	$500 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the office of the Register of Kings County, for the year 1911, as follows:

Register of Kings County.

General Administration—

2077.	Salaries:	
	Register	$8,000 00
	Deputy Register	5,000 00
	Assistant Deputy Register	2,500 00
	Counsel	3,500 00
	Expert Clerk	3,500 00
	Tickler Clerk	2,500 00
	Chief Block Index Clerk	2,500 00
	Chief Clerk of Records	1,800 00
	Chief Current Index Clerk	1,800 00
	Secretary	1,500 00
	Clerks, 15 at $1,500	22,500 00
	Bookkeeper	1,500 00
	Comparers, 4 at $1,500	6,000 00
	Assistant Comparers, 3 at $1,500	4,500 00
	Executive Clerk	1,200 00
	Clerks, 13 at $1,200	15,600 00
	Stenographer	1,200 00
	Custodians, 5 at $1,000	5,000 00
	Messengers, 3 at $800	2,400 00
	Keeper of Coat Room	720 00

Salaried Copyists, 35 at $1,200	42,000 00
Telephone Operator	900 00
	$136,120 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Commissioner of Bridges relative to the proposed terminal of the Manhattan end of the Brooklyn Bridge in connection with the new Municipal building.

Which was laid over one week—August 3, 1911.

The Secretary presented the following communication from the Comptroller requesting the modification of salary schedules supporting the appropriation made in the Budget for the year 1911, for the Department of Finance, to provide for appointments to positions now vacant, etc., involving the transfer of $2,617.50:

City of New York, Department of Finance, Comptroller's Office, July 24, 1911.

The Honorable, Board of Estimate and Apportionment:

Gentlemen—Request is hereby made that the Budget Schedule lines supporting the salaries appropriations as made to the Department of Finance for the year 1911, be amended in order to provide for the following changes:

First—For the appointment of four Accountants, 2 at $2,100 per annum each, and two at $1,800 per annum each, in the Auditing Bureau, Expert Accountants' Division.

Second—For the transfer of a Statistician at $1,650 per annum, from the Bureau of Municipal Investigation and Statistics to the Auditing Bureau.

Third—For abolishing the position of Assistant Engineer at $1,650 per annum, now vacant, in the Auditing Bureau.

Fourth—For striking out line "Balance Unassigned, $1,310," in Account No. 32, Revenue, Taxes, Assessments and Arrears, Miscellaneous.

Fifth—For striking out item "Balance Unassigned, $1,050," in Account No. 33, Bureau of Municipal Investigation and Statistics.

Sixth—For striking out item "Clerk with Knowledge of Statistics, $1,500," in Account No. 33, Bureau of Municipal Investigation and Statistics.

Seventh—For reducing number of Clerks at $750 in the Auditing Bureau by one and striking out line in Auditing Bureau Schedule, "Clerk with special knowledge of handwriting, $1,050," both positions being at present unfilled.

Eighth—For reducing the Clerks in the Auditing Bureau at $540 per annum by one.

Resolutions (2), providing for the changes as enumerated above, are submitted herewith for adoption.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following modifications of the schedule of salaries supporting the appropriations made to the Department of Finance for the year 1911, entitled and as follows:

Auditing Bureau—

31. Salaries:

Auditor of Accounts	$6,000 00
Auditor of Accounts	5,000 00
Auditors of Accounts, 2 at $4,000	8,000 00
Auditors of Accounts, 3 at $3,500	10,500 00
Auditors of Accounts, 12 at $3,000	36,000 00
Deputy Auditors of Accounts, 2 at $2,100	4,200 00
Expert Accountant	4,000 00
Expert Accountants, 2 at $3,500	7,000 00
Expert Accountants, 3 at $2,500	7,500 00
Expert Accountants, 8 at $2,100	16,800 00
Chief Accountant and Bookkeeper	6,000 00
Accountant (Auditor of Receipts)	4,000 00

Accountants, 4 at $2,100	8,400 00
Accountants, 4 at $1,800	7,200 00
Accountant	1,650 00
Clerk	4,500 00
Clerks, 2 at $2,400	4,800 00
Clerks, 5 at $2,100	10,500 00
Clerks, 4 at $1,950	7,800 00
Clerks, 5 at $1,800	9,000 00
Clerks, 8 at $1,650	13,200 00
Clerks, 20 at $1,500	30,000 00
Clerks, 10 at $1,350	13,500 00
Clerks, 11 at $1,200	13,200 00
Clerks, 13 at $1,050	13,650 00
Clerks, 3 at $900	2,700 00
Clerks, 3 at $750	2,250 00
Clerks, 4 at $600	2,400 00
Clerks, 5 at $540	2,700 00
Clerks, 3 at $300	900 00
Disbursing Clerks, 2 at $2,250	4,500 00
Disbursing Clerk	1,650 00
Clerk, with special knowledge as Cataloguer	750 00
Statistician (dates from August 1, 1911)	1,650 00
Searchers, 4 at $1,050	4,200 00
Bookkeeper	3,500 00
Bookkeeper	3,000 00
Bookkeepers, 2 at $2,400	4,800 00
Bookkeeper	2,250 00
Bookkeeper	2,100 00
Bookkeepers, 2 at $1,950	3,900 00
Bookkeeper	1,800 00
Bookkeepers, 3 at $1,650	4,950 00
Bookkeeper	1,500 00
Bookkeepers, 7 at $1,350	9,450 00
Bookkeepers, 19 at $1,200	22,800 00
Security Deposit Clerk	1,800 00
Cashiers, 3 at $2,100	6,300 00
Cashier	1,650 00
Cashier	1,350 00
Financial Clerk	1,950 00
Financial Clerk	1,650 00
Financial Clerks, 2 at $1,350	2,700 00
Financial Clerks, 2 at $1,200	2,400 00
Financial Clerks, 2 at $1,050	2,100 00
Stenographer and Typewriter	1,650 00
Stenographer and Typewriter	1,500 00
Stenographers and Typewriters, 5 at $1,200	6,000 00
Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	900 00
Stenographer and Typewriter	750 00
Stenographer and Book Typewriter	900 00
Typewriting Copyist	750 00
Typewriting Accountants, 2 at $1,200	2,400 00
Bank Messengers, 3 at $1,200	3,600 00
Messenger	1,200 00
Examiner	5,000 00
Examiner	4,000 00
Examiner	2,550 00
Examiners, 4 at $2,100	8,400 00
Examiners, 3 at $1,950	5,850 00
Examiners, 2 at $1,800	3,600 00
Examiners, 5 at $1,650	8,250 00
Examiners, 3 at $1,500	4,500 00
Examiner	1,350 00
Examiner	1,200 00
Examiners, 2 at $1,050	2,100 00
Examining Inspectors, 12 at $1,500	18,000 00
Examining Inspector	1,350 00

Inspector of Repairs and Supplies	2,550 00
Inspectors of Repairs and Supplies, 3 at $1,800	5,400 00
Inspector of Repairs and Supplies	1,650 00
Inspectors of Repairs and Supplies, 4 at $1,500	6,000 00
Inspectors of Repairs and Supplies, 10 at $1,200	12,000 00
Inspectors of Regulating, Grading and Paving, 2 at $1,500	3,000 00
Inspector of Regulating, Grading and Paving	1,350 00
Inspector of Regulating, Grading and Paving	1,200 00
Inspector of Sewer Construction	1,350 00
Inspector of Sewer Construction	1,200 00
Inspector of Sewers	1,800 00
Veterinarian	1,800 00
Assistant Engineer	3,600 00
Asssitant Engineer	3,000 00
Assistant Engineer	2,400 00
Assistant Engineers, 5 at $2,100	10,500 00
Assistant Engineer	1,800 00
Transitman and Computer	1,500 00
Examiner of Accounts of Institutions	3,000 00
Examiner of Accounts of Institutions	1,650 00
Examiners of Accounts of Institutions, 4 at $1,500	6,000 00
Balance unassigned	50 00
	$517,700 00

Bureau of Municipal Investigation and Statistics—

33. Salaries:

Supervising Statistician and Examiner	$6,000 00
Expert Accountants, 3 at $4,000	12,000 00
Expert Accountants, 2 at $3,500	7,000 00
Expert Accountant	2,500 00
Examiner	3,500 00
Examiners, 2 at $3,000	6,000 00
Examiner	2,850 00
Examiner	2,250 00
Examiner	2,100 00
Auditor of Accounts	3,000 00
Accountant	2,400 00
Clerk	2,100 00
Clerk	1,800 00
Clerk	1,650 00
Clerk	1,500 00
Clerks, 2 at $1,350	2,700 00
Clerk	600 00
Clerk	540 00
Clerks, 2 at $300	600 00
Principal Assistant Engineer	6,000 00
Assistant Engineer	3,600 00
Assistant Engineer	3,000 00
Assistant Engineer	2,400 00
Assistant Engineer	1,800 00
Stenographer and Typewriter	1,200 00
Stenographers and Typewriters, 3 at $900	2,700 00
Stenographers and Typewriters, 2 at $750	1,500 00
	$83,290 00

Revenue Taxes, Assessments and Arrears, Miscellaneous—

32. Salaries:

Receiver of Taxes	$6,000 00
Deputy Receivers of Taxes, 2 at $4,000	8,000 00
Deputy Receivers of Taxes, 2 at $3,750	7,500 00
Deputy Receivers of Taxes, 3 at $2,500	7,500 00
Deputy Receivers of Taxes, 3 at $2,100	6,300 00
Collector of Assessments and Arrears	4,500 00
Deputy Collector of Assessments and Arrears	4,000 00
Deputy Collector of Assessments and Arrears	3,500 00
Deputy Collectors of Assessments and Arrears, 2 at $2,250	4,500 00
Deputy Collector of Assessments and Arrears	2,000 00

Collector of City Revenue and Superintendent of Markets	3,000 00
Cashier	2,500 00
Cashiers, 2 at $2,100	4,200 00
Cashiers, 2 at $1,800	3,600 00
Cashiers, 4 at $1,650	6,600 00
Cashiers, 3 at $1,500	4,500 00
Accountant	1,800 00
Accountants, 2 at $1,500	3,000 00
Bookkeeper	2,250 00
Bookkeepers, 2 at $1,800	3,600 00
Bookkeepers, 2 at $1,500	3,000 00
Bookkeepers, 6 at $1,200	7,200 00
Clerk	2,400 00
Clerk	2,250 00
Clerks, 3 at $1,950	5,850 00
Clerks, 6 at $1,800	10,800 00
Clerks, 9 at $1,650	14,850 00
Clerks, 12 at $1,500	18,000 00
Clerks, 18 at $1,350	24,300 00
Clerks, 14 at $1,200	16,800 00
Clerks, 14 at $1,050	14,700 00
Clerks, 5 at $900	4,500 00
Clerk	750 00
Clerks, 3 at $600	1,800 00
Clerks, 3 at $540	1,620 00
Clerk	480 00
Clerks, 4 at $300	1,200 00
Financial Clerk	2,400 00
Financial Clerk	1,950 00
Financial Clerk	1,800 00
Financial Clerks, 2 at $1,650	3,300 00
Financial Clerk	1,500 00
Financial Clerk	1,050 00
Collection Clerk	1,650 00
Collection Clerks, 2 at $1,500	3,000 00
Collection Clerks, 3 at $1,350	4,050 00
Clerk with special knowledge of handwriting	1,050 00
Searchers, 2 at 1,200	2,400 00
Searchers, 12 at $1,050	12,600 00
Searcher	900 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Stenographer and Typewriter	900 00
Stenographer and Typewriter	750 00
Typewriting Copyist	1,050 00
Bank Messengers, 5 at $1,200	6,000 00
Messengers, 2 at $1,200	2,400 00
Messengers, 2 at $1,050	2,100 00
	$272,450 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That the sum of twenty-six hundred and seventeen dollars and fifty cents ($2.617.50) be and the same is hereby transferred from the appropriations made to the Department of Finance for the year 1911, entitled and as follows:

Revenue—Taxes, Assessments and Arrears, Miscellaneous, No. 32	$655 00
Bureau of Municipal Investigation and Statistics, Account No. 33	1,962 50
	$2,617 50

—the said appropriation being in excess of the amounts required for the purpose thereof—to the appropriation made to the said Department for the same year, entitled

"Auditing Bureau, Account No. 31," the amount of the said appropriation being insufficient.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following report of the Corporate Stock Budget Committee recommending the authorization of $200,000 corporate stock for the construction of a central library in Brooklyn, said authorization to be conditional upon approval by the Board of Estimate and Apportionment of a site for the library, and with the further condition that no additional liabilities shall be contracted for in connection with the present site until the approval of the Board of Estimate and Apportionment has been obtained:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—At a meeting of this Board held July 17, 1911, the question of an authorization of corporate stock for a central library in Brooklyn was referred back to the Corporate Stock Budget Committee for further consideration and report.

The report of this Committee submitted on July 17, did not recommend an appropriation for this purpose, but recommended rescindments of $18,010 of the $300,000 authorization made in the 1910 Corporate Stock Budget.

When this matter was first considered by the Committee several weeks ago it was our opinion that a further appropriation for the central library in Brooklyn should be included in the Budget for 1911. In fact we made a tentative allowance of $1,065,000 for this purpose. After this tentative agreement we discovered that there was a serious controversy among the citizens of Brooklyn over the site for the library building. This controversy convinced the Committee that it would not be wise to further commit the City by a large appropriation while the question of the site was still at issue. Accordingly we determined to make no recommendation for additional appropriation.

We believe that Brooklyn should have a central reference library. Reference libraries are used to a very large extent by persons with whom time is a most essential element. The average Brooklynite who might have occasion to use the facilities afforded by a reference library could not afford to lose the time required for the long trip to the reference library in Manhattan. In many cases the round trip to the library at 42d street, Manhattan, from certain sections of Brooklyn would consume approximately three hours' time. In the great majority of cases there would be at least one hour's difference in the time required for a round trip to the Manhattan library, and a round trip to the proposed site for the Brooklyn library. The long trip to Manhattan would deter Brooklyn people from using that library. A reference library conveniently located in Brooklyn would no doubt be used regularly by persons who would never think of going to Manhattan to consult books of reference.

It is unfortunate that there is no agreement upon a proper site for the library in Brooklyn. We believe that the controversy over this question can be settled. We believe, also, that the City should make some further provision at this time for the building of the library.

We recommend the authorization of $200,000 in addition to the $300,000 authorized in last year's Corporate Stock Budget. This will make an appropriation of $500,000, which is about all that could be spent in the next twelve months.

We recommend, however, that this authorization be made conditional upon approval by the Board of Estimate and Apportionment of a site for the library, and upon a further condition that the President of the Borough of Brooklyn contract no additional obligations against the corporate stock authorized last year, or the $200,000 recommended for authorization this year until after this Board had approved the site. Respectfully,

WM. A. PRENDERGAST, Comptroller; , President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York

Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000), to provide means for the erection of a central library building including the foundations thereof in the Borough of Brooklyn, to be built under the jurisdiction of the President of the Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid; provided, however, that the President of the Borough shall incur no obligation against this authorization of corporate stock until the Board of Estimate shall have approved a site for the new central library building.

Hon. Edward M. Grout, representing the Trustees of the Library, appeared and urged that the words "provided, however, that the President of the Borough shall incur no obligation against this authorization of corporate stock until the Board of Estimate shall have approved a site for the new central library building" be eliminated from the resolution.

John W. Devoy, Esq., Trustee, and A. J. Keogh endorsed the request of Mr. Grout.

Gilbert Elliott, Esq., Chairman, Committee on Parks, Brooklyn League; John Thatcher, Esq., Superintendent of Buildings, Borough of Brooklyn; John F. Gies, Esq., secretary, Brooklyn League; Guy DuVal, Esq., George D. Brower, Esq., and Wm. I. Nicholls, Esq., representing the Brooklyn League, appeared in favor of the condition contained in the resolution as submitted by the Committee.

The Comptroller moved that the resolution be amended by striking therefrom the words "provided; however, that the President of the Borough shall incur no obligation against this authorization of corporate stock until the Board of Estimate shall have approved a site for the new central library building."

The amended resolution failed of adoption by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—11.

Negative—The President of the Borough of Manhattan—2.

During the discussion the President of the Borough of Manhattan suggested that the Board request the opinion of the Corporation Counsel as to the legislation in regard to the site and as to whether or not the Board had the power to change its location.

Subsequently, upon the arrival of his Honor, the Mayor, the matter was again considered.

The President of the Borough of Manhattan stated that objection had been raised to the present location of the site and that he had suggested requesting an opinion of the Corporation Counsel as to whether or not the Board had the power to change its location.

His Honor, the Mayor, stated that the question of the location of the site had been settled by the Act of Legislature.

The following resolution was then offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of the corporate stock of The City of New York to an amount not exceeding two hundred thousand dollars ($200,000) to provide means for the erection of a central library building, including foundations thereof, in the Borough of Brooklyn, to be built under the jurisdiction of the President of the Borough of Brooklyn, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be, and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—14.

Negative—The President of the Borough of Manhattan—2.

The Secretary presented the following report of the Corporate Stock Budget Committee recommending the authorization of $500,000 corporate stock for the acquisition of additional land for site, for architects' fees, foundations of and for construction of new municipal building in the Borough of Brooklyn; also recommending that the request for $500,000 corporate stock for the Eighth Ward Market be denied:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 17, 1911, the Board of Estimate and Apportionment referred back to the Corporate Stock Budget Committee the request of the President of the Borough of Brooklyn, for an authorization of $4,000,000 Corporate Stock for the new municipal building.

Your Committee has recognized from the first the need of Brooklyn for a new municipal building. It has been compelled, however, to consider this matter in its relation to other necessary public improvements, and it did not appear to us that this was as urgent as many other matters.

From representations made to us, it appeared that an authorization of $500,000 for the Eighth Ward Market should take precedence over the Municipal Building. Further investigation had led to the conclusion that there is greater need for the building than the market.

The arguments in favor of a new municipal building in Brooklyn are very convincing. This building has been needed for many years, and there is no doubt that public administration in the Borough has been severely handicapped, and that the taxpayers of Brooklyn have been put to a serious inconvenience because there was no adequate and conveniently located building for the use of the City, the Borough and the County Departments.

On February 27, 1903, a beginning was made to remedy the situation. At that time $32,000 was authorized for the appropriation of plans and specifications for a new municipal building.

On December 5, 1905, the sum of $500,000 was authorized for the construction and erection of the new municipal building. For various reasons no material progress was made on the work.

It was not until June 30, 1910, that $20,500 was released from the authorization of $32,000 made February 27, 1903. At the same time $123,000 was released from the authorization of $500,000 made December 5, 1905. However, on that same date the remaining balances of $11,500 and $377,000 respectively, were rescinded.

The $123,000 released for the construction and erection of the new Municipal building was represented by a balance of $90,000, subject to a contract liability of $10,000 on December 31, 1910. In addition to this unencumbered balance of $80,000 the President of the Borough of Brooklyn requested an additional authorization of $4,000,000, to be authorized in 1911 for the completion of the new Municipal building. He estimated that $750,000 be expended in 1911, $1,750,000 in 1912, and $1,500,000 in 1913.

The Borough Administration is not only handicapped by inadequate quarters, but the city is at the same time burdened with the heavy rent for offices that should be located in a Municipal building.

The amounts estimated for rent in 1911 of buildings, offices, etc., by Departments not located upon city property in the Borough of Brooklyn is $159,606.25. From this amount the sum of $85,664, rentals for Armories, for the Departments of Street Cleaning, Education, Park, Fire and the Courts and Sheriff's offices is to be deducted. This leaves a balance of $73,942,25 for rents for Departments that will be housed in the proposed Municipal building. Upon an investment of $4,143,500, which it is estimated the new Municipal building will cost, the interest charge will be $165,740. These figures show that the interest charge will be greater than the rental now paid, but we must consider at the same time that it will not be long before the growth of the Borough will necessitate enlargement of quarters, which will make the rental charges higher than the interest upon the proposed investment.

However, the question of rental charge as compared with the interest charge is not the main consideration. The people of Brooklyn should have a Municipal building, capable of accommodating all Borough Departments so that Taxpayers would not be compelled, as now, to travel over the Borough looking for Borough Departments, all of which should be under one roof. The present Municipal building is unsanitary and not fitted for an office building. It is not only unfiitted and unsafe for use as an office building, but the arrangement of the offices is such that crowding is unavoidable, and the ventilation is so poor that the sanitary conditions are necessarily bad. We believe that no time should be lost in beginning work on a new building

It is proposed to erect a building upon the Municipal Park, fronting on Joralemon street, and upon a strip of land now privately owned along Court street. The total assessed valuation of the three lots making up the Court street strip is $215,900.

It was the intention of the Borough President to construct three stories and cellar of the building this year at a cost of about $490,000, in addition to the cost of the land. It was estimated that the work could easily be completed and the three floors occupied at the end of twelve months.

We recommend the authorization of $500,000 in addition to the unexpended balance of $80,000, to be used by the Borough President for the acquisition of three lots on Court street, for plans, specifications and the construction of foundation and erection of the new Municipal building.

When this matter was referred back to the Committee on July 17, we were instructed to consider an appropriation for the Municipal Building in connection with the proposed authorization of $500,000 for the Eighth Ward Market and to decide which improvement should be provided for first. It is the opinion of the Borough President that the need for a Municipal building is by far more urgent than the need for another market. This opinion is supported by the views of the leading Civic Organizations of Brooklyn.

We recommend that no authorization be made for the Eighth Ward Market. Attached hereto is a resolution, which, if adopted, will carry out our recommendations.

Respectfully,

WM. A. PRENDERGAST, Comptroller; ...., President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding five hundred thousand dollars ($500,000) to provide means for drawing plans and specifications, and for constructing foundations for and erecting a new Municipal Building in the Borough of Brooklyn, to be built at Court and Joralemon streets, Borough of Brooklyn, and for the further purpose of acquiring three lots of land on the Court street side, to be used in addition to the Municipal Park adjoining as a site for the Municipal Building, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be, and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

Action on the denial of the request for an appropriation for the Eighth Ward Market, Borough of Brooklyn, was deferred until August 3, 1911.

The Secretary presented the following report of the Corporate Stock Budget Committee recommending the authorization of $50,000 Corporate Stock for the General improvement of Silver Lake Park, Borough of Richmond:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 27, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 17, 1911, when the report of the Corporate Stock Budget Committee was considered by this Board, the question of authorizing $50,000 to provide means for the general improvement of Silver Lake Park, Borough of Richmond, was reopened and referred back to the Committee for further consideration and report.

Your Committee has already considered this question very thoroughly and was impressed by the need for improvement of Silver Lake Park, but it was considered that there was no urgent reason for doing the work this year.

The only objection that has been raised to an appropriation for Silver Lake Park is that practically all of Staten Island is a park. Even if the entire island were a park, it would be of little value for park purposes unless improved so that it could be used for such purposes. At present Silver Lake Park, although a beautiful and attractive spot, is not fully available for park purposes, because it lacks several essentials to a usable park.

We recommend that $50,000 in Corporate Stock be authorized to provide for the general improvement of this park, and that the resolution be so drawn that it will include the erection of a shelter house, which is seriously needed.

We recommend the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; ...., President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding fifty thousand dollars ($50,000) to provide means for the general improvement of Silver Lake Park, including the erection of a shelter house, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be, and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Corporate Stock Budget Committee recommending that the request of the Commissioner of Correction for $800,000 corporate stock for a Reformatory on Harts Island, and for $250,000 corporate stock, for acquiring a site and for the erection thereon of a Magistrate's Court for Women, a Women's Jail and a place of detention for Women, be denied.

Patrick A. Whitney, Esq., Commissioner of Correction appeared in opposition to the recommendations of the Committee, and the matter was laid over.

The Secretary presented the following communications from the Commissioner of Parks, Boroughs of Brooklyn and Queens, relative to, and report of the Corporate Stock Budget Committee recommending, the amendment of resolutions adopted June 3, 1910, and July 17, 1911, authorizing Corporate Stock for Green Houses and Instruction Building in the Brooklyn Botanic Garden in order that four separate authorizations may be lumped together to obtain economy in construction:

The City of New York, Department of Parks, Boroughs of Brooklyn and Queens, Litchfield Mansion, Prospect Park, Borough of Brooklyn, July 24, 1911.

To the Honorable Board of Estimate and Apportionment, of the City of New York:

Gentlemen—On June 3d, 1910, your Honorable Board authorized the following issues of Corporate Stock:

Construction of Plant Houses in Botanic Garden........................	$25,000 00
Construction of Rooms for Instruction of Botany in the Botanical Garden	25,000 00

A careful study of the plans shows it will be extremely difficult to physically separate one part of the work from the other, owing to the fact that the heating plant provides heat for both the Instruction Building and the Plant Houses, and there are communications between the two.

Upon recommendation of the Board of Trustees of the Brooklyn Institute of Arts and Sciences, and Messrs. McKim, Mead and White, the Architects, I would respectfully request your Honorable Board to combine the two appropriations above mentioned into a single appropriation.

Very truly yours, M. J. KENNEDY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—I transmit herewith four resolutions amending corporate stock authorizations to the amount of $100,000, to provide means for the construction of plant houses, the construction of rooms for instruction of botany and the construction and equipment of an instruction building in the Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens.

The amendments to the resolutions entail only a change to make the titles of the accounts uniform to enable the Commissioner to award contracts for the improvement as a whole, thereby obtaining greater economy in construction. Respectfully,

WM. A. PRENDERGAST, Comptroller; ...., President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and concurred in by the Board of Aldermen on June 14, 1910, as follows:

"Resolved, That, pursuant to the provisions of chapter 618 of the Laws of 1906, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-five thousand dollars ($25,000) to provide means for the construction of rooms for instruction of botany in the Botanic Garden and Arboretum, Borough of Brooklyn, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and he is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding twenty-five thousand dollars ($25,000), the proceeds whereof to be applied to the purposes aforesaid."

—be amended by eliminating the words "construction of rooms for instruction of botany," and inserting in lieu thereof the words, "erection and construction of a laboratory building and greenhouses, including equipment thereof."

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on June 3, 1910, and concurred in by the Board of Aldermen on June 14, 1910, as follows:

"Resolved, That, pursuant to the provisions of chapter 618 of the Laws of 1906, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding twenty-five thousand dollars ($25,000), to provide means for the construction of plant houses in the Botanic Garden and Arboretum situated southerly from the building of the Brooklyn Institute of Arts and Sciences, and lying between Washington and Flatbush avenues, Borough of Brooklyn, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and when authority therefor shall have been obtained from the Board of Aldermen the Comptroller be and he is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding twenty-five thousand dollars ($25,000), the proceeds whereof to be applied to the purposes aforesaid."

—be amended by eliminating the words "construction of plant houses," and inserting in lieu thereof the words, "erection and construction of a laboratory building and greenhouses, including equipment thereof."

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen, the resolution adopted by the Board of Estimate and Apportionment on July 17, 1911, as follows:

"Resolved, That, pursuant to the provisions of chapter 178 of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-three thousand dollars ($33,000), to provide means for the construction and equipment of an instruction building, in the Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid."

—be amended to read as follows:

Resolved, That, pursuant to the provisions of chapter 178 of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding thirty-three thousand dollars ($33,000), to provide means for the erection and construction of a laboratory building and greenhouses, including equipment thereof, in the Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That, subject to the concurrence herewith by the Board of Aldermen the resolution adopted by the Board of Estimate and Apportionment on July 17, 1911, as follows:

Resolved, That, pursuant to the provisions of chapter 178, of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding seventeen thousand dollars ($17,000), to provide means for the construction of greenhouses in the botanic garden and arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

—be amended to read as follows:

"Resolved, That, pursuant to the provisions of chapter 178 of the Laws of 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York, to an amount not exceeding seventeen thousand dollars ($17,000), to provide means for the erection and construction of a laboratory building and greenhouses, including equipment thereof, in the Botanic Garden and Arboretum, under the jurisdiction of the Department of Parks, Boroughs of Brooklyn and Queens, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the President of the Borough of Richmond requesting an authorization of $5,000 Corporate Stock in addition to the amount heretofore authorized, to be used by the President of the Borough of Richmond for carrying on the work of elimination of grade crossings in that Borough, together with a report of the Corporate Stock Budget Committee, recommending an appropriation of $2,000 for this purpose, and also recommending the approval of a schedule for said fund:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 2, 1911.

Board of Estimate and Apportionment, 277 Broadway, New York.

Gentlemen—We had expected to include in our departmental estimate for 1912, to be provided by Budget appropriation, moneys necessary to prosecute our work of preliminary studies, surveys and layout of Grade Crossing elimination, but are advised in the Department of Finance that Corporate Stock should preferably be provided for this work, as it is essential to improvements that will have a long life.

To that end, we would, therefore, request an issue of Corporate Stock in the sum of $5,000 to cover the following schedule:

One Assistant Engineer	$2,700 00
One Draftsman	1,500 00
One-eighth Service of Field Party	800 00
	$5,000 00

The employees of the Field Party would all be scheduled in the Departmental Budget under the general classification of part Budget and part Bond Issue payments.

Yours very truly,

GEORGE CROMWELL, President of the Borough; by LOUIS L. TRIBUS.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 2, 1911, the President of the Borough of Richmond requested an additional authorization of corporate stock for preliminary studies, surveys and layout for grade crossing elimination. In connection therewith we report, as follows:

On March 11, 1910, the Board of Estimate and Apportionment approved of an authorization of corporate stock amounting to $5,000 for making studies, preliminary surveys and other data in connection with the work of eliminating grade crossings in the Borough. Of the amount there remains an available total of $1,566.12. In a communicaton dated July 18, 1911, the Engineer in charge of the work stated that the estimated cost of continuing the work to July 1, 1912, would be $3,500. The permanent staff consists of an Engineer, at $2,700 per annum, and a part of the services of a field party, amounting to $800.

We recommend the approval of the request to the extent of $2,000, and a schedule for the fund by the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of Corporate Stock of The City of New York to an amount not exceeding two thousand dollars ($2,000), in addition to amounts heretofore authorized (C-PR-1A), to provide means for defraying the expense of making studies and plans for the elimination of grade crossings of steam railroads in the Borough of Richmond, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said Corporate Stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

—

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the corporate stock force plans for the elimination of grade crossings, in the Borough of Richmond (C-PR-1A), under the jurisdiction of the President of the Borough of Richmond, as follows:

Corporate Stock Force (C-PR-1A)—
Salaries:
Assistant Engineer .... 1 at $2,700 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Commissioner of Street Cleaning requesting an authorization of $43,500 corporate stock for the construction of a Storehouse, etc., together with a report of the Corporate Stock Budget Committee, recommending that said request be denied:

Department of Street Cleaning of The City of New York, 13-21 Park Row, New York, July 6, 1911.

Hon. Wm. J. Gaynor, Mayor, *Chairman of the Board of Estimate and Apportionment, City of New York:*

Dear Sir—I desire to construct a Storehouse to serve as the Office of the Property Clerk of this Department, on the property in Manhattan under the Williamsburg Bridge, and to pave the yard and build a Wall about said property. This property was formerly in the joint possession of this Department and the Department of Bridges: but by the recent action of the Sinking Fund Committee was turned over exclusively to this Department.

The estimated total cost of making these projected improvements will approximate $43,500, and I request that your Board authorize the issue of Corporate Stock to that amount for this purpose pursuant to section 546 of the New York Charter.

Respectfully, WM. H. EDWARDS, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 15, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to the communication received from the Commissioner of Street Cleaning under date of July 6, 1911, requesting that an issue of Corporate Stock to an amount of $43,500 be allowed to provide means for the construction of a Storehouse to serve as the office of the Property Clerk, I report as follows:

The site upon which the building is to be erected is under the Williamsburgh Bridge, and was formerly in the joint possession of the Department of Street Cleaning and Bridges, but by a recent action of the Sinking Fund Commission was turned over exclusively to the Department of Street Cleaning.

The Commissioner proposes to make alterations to the building now there, and to build an addition that will be large enough to use for a Storehouse, and to build a brick wall around the property, and pave the yard.

The estimated cost is $43,500, itemized as follows:

Alterations to Old Building	$3,000 00
Erection of New Storehouse	32,000 00
Brick Wall	2,000 00
Lumber Sheds	2,200 00
Paving Yard	2,000 00
Architects' and Engineers' Fees, etc.	2,300 00
	$43,500 00

The present storehouse is located in Stable A, Avenue C, between 16th and 17th streets, but is said not to be well adapted for the purpose.

There does not appear to be an urgent need for this improvement, and we recommend that the Commissioner's request be denied. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the request of the Commissioner of Street Cleaning, as contained in a communication, dated July 6, 1911, for an issue of corporate stock in the sum of forty-three thousand five hundred dollars ($43,500), pursuant to section 546 of the Greater New York Charter, for the construction of a storehouse to serve as the office of the Property Clerk of the Department of Street Cleaning on the property in the Borough of Manhattan, under the Williamsburg Bridge, and to pave the yard and build a wall about said property, be and the same is hereby denied.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of the Corporate Stock Budget Committee recommending, an authorization of $450,000 Corporate Stock for Fire Protection Work on various Schools in all Boroughs:

Board of Education, Park Avenue and 59th Street, New York, July 13, 1911.

Mr. Joseph Haag, Secretary, *Board of Estimate and Apportionment:*

Dear Sir—I have the honor to transmit herewith a certified copy of a report and resolution adopted by the Board of Education at a meeting held on the 12th inst., relative to the issue of Corporate Stock to the amount of $450,000 for Fire Protection Work. Respectfully yours,

A. E. PALMER, Secretary, Board of Education.

To the Board of Education:

The Committee on Finance has received a request from the Committee on Buildings to take the necessary steps to procure funds for fire protection work in public school buildings for expenditure during the next twelve months. The following communication from the Superintendent of School Buildings explains the necessities of the case and the conditions that make the request necessary:

"New York, July 1, 1911.

"To the Committee on Buildings, Board of Education:

"In the matter of work for fire protection of the public school buildings permit me to report as follows:

"Early in 1908 we reported that it would require about three millions of dollars to make such permanent improvements or betterments in the school buildings of this City as to render them reasonably safe for pupils and teachers in the event of fire.

"Manifestly it was impossible to perform all of this work at once, therefore request was made upon the Board of Estimate and Apportionment for an appropriation of one million of dollars with which to take up the more urgent cases. This sum was granted in April, 1908.

"A further sum of $450,000 was granted in June, 1910.

"These sums were apportioned to the various Boroughs on the basis of necessity.

"The carrying out of much of the work has been under great difficulties owing to the fact that school sessions could not be suspended.

"Therefore, where there were three or four wood stairways to be removed and those of fireproof construction substituted therefor, it was impossible to proceed with the work on more than one at a time, thus covering a long period of time.

"The total appropriations for each Borough, together with their balances are as follows:

Manhattan	$484,800 00	Unencumbered balance	$63,555. 78
The Bronx	37,557 00	Unencumbered balance	7,563 76
Brooklyn	687,320 00	Unencumbered balance	89,961 86
Queens	156,450 00	Unencumbered balance	12,019 23
Richmond	83,873 00	Unencumbered balance	38,765 77
Total	$1,450,000 00		$211,866 40

"The reports of the Deputy Superintendents include, as requested, condensed statements of

"(a). What improvements have been made to the public schools in their respective Boroughs in the way of fire protection work since funds were originally authorized in 1908.

"(b). What work will be done from funds now on hand.

"(c). What funds will be required to bring each building up to the standard set by the Fire Protection Rules.

"The list (a) of improvements already made and (b) to be carried out during the present season are most interesting, but of too great length to be introduced here. As to statement (c) the estimates are as follows:

Manhattan	$531,274 00
The Bronx	122,853 00
Brooklyn	443,897 00
Queens	186,080 00
Richmond	95,235 00
	$1,379,339 00

"It would seem that many of the items are subject to variation when it actually comes to the laying out of the work.

"There are also the new demands from the building department for the performance of this, that or the other item of fire protection work, for which no provision has been made.

"It is safe to say, therefore, that ultimately the entire sum originally named will be required, but owing to the fact that the work must be carried on largely with the schools in session, I think it best to proceed carefully and systematically, asking only for those funds which we can really use during the next twelve months.

"I would, therefore, suggest that a request be made for an appropriation of $450,000, being the same amount as last year, and that it be apportioned as to the needs of the Boroughs as expressed in the items comprising the $1,379,339.

"Also that the Deputy Superintendents be required to prepare a list of the most necessary work which, with the estimated wages of Draftsmen and Inspectors, will equal the amounts thus apportioned. Very truly yours,

"C. B. J. SNYDER, Superintendent of School Buildings."

The Committee on Finance is of opinion that a request for the sum of $450,000 Corporate Stock should be made upon the Board of Estimate and Apportionment.

The following resolution is submitted for adoption:

Resolved, That the Board of Estimate and Apportionment be, and it is hereby, respectfully requested to authorize the Comptroller to issue Corporate Stock to the extent of four hundred and fifty thousand dollars ($450,000), and that said sum of $450,000 be apportioned as follows:

Manhattan	$173,340 00
The Bronx	40,095 00
Brooklyn	144,810 00
Queens	50,705 00
Richmond	31,050 00
	$450,000 00

to provide means for such permanent improvements or betterments in the school buildings of this City as to render them reasonably safe for pupils and teachers in the event of fire.

A true copy of report and resolution adopted by the Board of Education on July 12, 1911. A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 13, 1911, the Secretary of the Board of Education transmitted a request for $450,000 Corporate Stock for fire protection work. This request was in addition to the various other requests for Corporate stock acted upon at the meeting of July 17, 1911. The new request was referred to the Corporate Stock Budget Committee. We endeavored to procure from the Department of Education a list of the school buildings on which the fire protection work was to be done. Although the request had been accompanied with a schedule showing the amounts that would be needed for each Borough, the Department of Education was unable to give a list of the buildings to be improved with fire protection. It was stated that the buildings had not yet been selected.

We believe that nothing should be left undone to provide fire protection work for public schools, but we believe that expensive work should not be done on buildings that will soon be abandoned.

We recommend the authorization of $450,000 Corporate Stock on condition that the Board of Estimate and Apportionment shall approve the list of buildings on which the proposed work is to be done.

We recommend the adoption of the attached resolutions. Respectfully,

WM. A. PRENDERGAST, Comptroller; ...., President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan: Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding four hundred and fifty thousand dollars ($450,000), to provide means for fire protection work on various public schools in all boroughs under the jurisdiction of the Department of Education, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposes aforesaid; provided, however, that no obligation against this authorization of corporate stock shall be incurred until after the Board of Estimate and Apportionment has given its approval to the plans, specifications and estimates of cost, and the school or schools selected for fire protection equipment.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Commissioner of Parks, Borough of The Bronx, requesting $4,345.90 Corporate Stock in addition to the amount already authorized for reconstructing and resurfacing the Roadway of Bronx and Pelham Parkway, from Williamsbridge road to White Plains road, Borough of The Bronx, together with a report of the Corporate Stock Budget Committee, recommending that said request be denied:

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, July 15, 1911.

Hon. WILLIAM J. GAYNOR, Mayor and Chairman, *Board of Estimate and Apportionment,* 277 Broadway, New York City.

Dear Sir—Your Honorable Board has heretofore authorized a Corporate Stock issue of $20,000.

"For furnishing all the labor and material for reconstructing and surfacing with asphaltic mixture the roadway of the Bronx and Pelham Parkway, from the Williamsbridge road to the White Plains road, in the Borough of The Bronx, in the City of New York."

This authorization was based upon the estimate of the Engineer of this Department. On last Thursday bids were opened and the lowest bid was $1.06½ per yard, which would be either $23,682.58, or $24,345.90, depending upon the number of yards calculated.

As the amount of this bid is greater than the amount of the authorization, I respectfully request a further authorization by your Honorable Board of an amount equal to the difference between the original authorization and $24,345.90. This contract has been advertised on three different occasions and the present is the lowest bid that has been received at any time.

Requesting early action by your honorable Board, I am, Yours truly,

T. J. HIGGINS, Commission of Parks, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 15, 1911, the Commissioner of Parks, Borough of The Bronx, addressed a communication to the Board of Estimate and Apportionment in which he stated that this Board had authorized a corporate stock issue of $20,000 for furnishing all the labor and material for reconstructing and surfacing with asphaltic mixture the roadway of the Bronx and Pelham Parkway from the Williamsbridge Road to the White Plains Road, in The Bronx. He stated that on opening bids on this work, the lowest bid was $1.06½ per yard, which would make the cost of the work either $23,682.58 or $24,345.90, depending upon the number of yards calculated. He requested a further authorization of corporate stock to an amount equal to the difference between the original authorization and $24,345.90.

This matter was referred to the Corporate Stock Budget Committee. We report thereon as follows:

There is no record of any specific authorization of $20,000 for reconstructing and surfacing the roadway of the Bronx and Pelham Parkway from Williamsbridge Road to White Plains Road.

On July 13, 1911, the Board of Estimate and Apportionment adopted a resolution approving plans and specifications and estimate of cost to the amount of $19,000 for the reconstruction of this section of the Bronx and Pelham parkway. This is probably the action of the Board which the Commissioner regards as an authorization of $20,000. This work was chargeable to the following corporate stock fund:

C-DP-334—Construction and repaving of drives, etc.—under contract—
The Bronx—for completion of work.......................... $86,007 93

This authorization was released in the corporate stock budget adopted June 3, 1910. We are informed that the balance in this account is more than ample to meet the cost of the reconstruction and surfacing work under the contract on which bids have been opened.

As there appears to be no necessity for any additional authorization of corporate stock, we recommend that the Commissioner's request be denied and that the Secretary of the Board of Estimate and Apportionment be directed to suggest to the Commissioner that the proper way to make funds available, is to request the Board of Estimate and Apportionment to approve a new estimate of cost sufficient to meet the expenditures of the proposed contractor. Respectfully,

WM. A. PRENDERGAST, Comptroller; President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the request of the Commissioner of Parks, Borough of The Bronx, as contained in a communication dated July 15, 1911, for an additional appropriation of four thousand three hundred and forty-five dollars and ninety cents ($4,345.90) for furnishing all labor and material for reconstructing and surfacing with asphaltic mixture the roadway of The Bronx and Pelham Parkway, from the Williamsbridge road to the White Plains road, in the Borough of The Bronx, be and the same is hereby denied.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Corporate Stock Budget Committee relative to the acquisition of site for court house in New York County and request of Commissioner of Bridges for $2,500,000 corporate stock for constructing a terminal at Manhattan end of Brooklyn Bridge, with recommendation that action be deferred.

Which was laid over one week—August 3, 1911.

The Secretary presented the following report of the Corporate Stock Budget Committee recommending that provision be made for the extension of Irving place in connection with Rapid Transit Route 5, known as the Lexington avenue route.

City of New York, Office of the President of the Borough of Manhattan, City Hall, July 26, 1911.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—Our report dated July 11, 1911, upon the request made by the President of the Borough of Manhattan for corporate stock to be authorized in 1911, did not include a recommendation for the authorization of the corporate stock for the extension of Irving place, although this item had been included among the requests originally submitted by the President of the Borough of Manhattan.

Since the action of the Board of Estimate and Apportionment on July 21 in authorizing the Public Service Commission to proceed with the construction of the

Rapid Transit railway on Lexington avenue, Irving place extension, etc., it has been deemed to be expedient to authorize an issue of moneys for the acquisition of title to lands acquired by the Irving place extension, and the opening of such street, or such part thereof as it may be determined by the Board of Estimate and Apportionment which shall be borne by the City at large.

It is therefore recommended that one hundred thousand ($100,000) dollars of corporate stock be authorized for Irving place extension.

Schedule A—New Authorizations.

Irving place extension in the Borough of Manhattan................	$100,000 00

We recommend the adoption of the attached resolution.

WM. A. PRENDERGEST, Comptroller; FRANCIS P. BENT, Acting President of the Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan, Committee on Corporate Stock Budget.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 47 of the Greater New York Charter, as amended, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), to provide means for the Irving Place Extension, in the Borough of Manhattan, and that when authority therefor shall have been obtained from the Board of Aldermen, the Comptroller be, and is hereby authorized to issue said corporate stock of The City of New York in the manner provided by section 169 of the Greater New York Charter, the proceeds thereof to the amount of the par value of the stock to be applied to the purposs aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Acting President of the Borough of Brooklyn requesting, and report of the Comptroller recommending, the modification of the Corporate Stock Salary and Wage Schedule of the Topographical Bureau, for the year 1911, in the office of the President of the Borough of Brooklyn; involving increases of salary for various employees and additional force:

The City of New York, Office of the President of the Borough of Brooklyn, July 24, 1911.

JOSEPH HAAG, Esq., *Board of Estimate and Apportionment:*

Dear Sir—At the meeting of the Board of Estimate to be held on the 27th inst., it is proposed to consider a resolution of the Comptroller relative to the matter of increases in the salaries of employees paid out of the corporate stock accounts. I attach hereto proposed schedule for this department which will increase the salaries of a number of deserving employees in our Topographical Bureau. I would respectfully request that a resolution be presented to the Board approving this schedule.

Kindly have the matter placed on the calendar for consideration.

Yours truly, L. H. POUNDS, Acting Borough President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 24, 1911 and July 26, 1911, the Acting President of the Borough of Brooklyn requested modification of the corporate stock salary and wage schedule of the Topographical Bureau in his office for the year 1911. In connection therewith, I report as follows:

In the salary schedule it is proposed to add a Topographical Draftsman, at $1,500 per annum; a Rodman, at $1,200, and to increase the compensation of twenty-three incumbents in the sum of $5,410 per annum. In the wage schedule it is proposed to increase the rate of compensation of seven Laborers from $2.50 to $3 per diem.

The following table shows the incumbents proposed for increase, their service record, etc.:

Arthur C. Forbes, Assistant Engineer, from $3,000 to $4,000 per annum. He was appointed March 18, 1897; on June 1, 1908, he was increased to present rate.

George W. Herbert, Assistant Engineer, from $2,700 to $3,000 per annum. He was appointed July 18, 1896; on June 1, 1908, he was increased to present rate.

Edward C. Ranson, Assistant Engineer, from $2,700 to $3,000 per annum. He was appointed March. 22, 1899, and on June 1, 1908, increased to present rate.

Nathan W. Stanley, Assistant Engineer, from $2,400 to $2,700 per annum. He was appointed August 16, 1897, and on June 1, 1908, increased to present rate.

John B. Stein, Assistant Engineer, from $2,400 to $2,700 per annum. He was appointed July 1, 1901; on June 1, 1908, increased to present rate.

Arthur R. Ebel, Assistant Engineer, from $2,250 to $2,400 per annum. He was appointed April 20, 1903; on December 30, 1909, increased to present rate.

Robert L. Allen, Assistant Engineer, from $2,100 to $2,700 per annum. He was appointed April 1, 1897; on April 1, 1907, increased to present rate.

Edmund M. French, Assistant Engineer, from $1,800 to $2,100 per annum. He was appointed February, 1906; on January 16, 1908, increased to present rate.

Willis Cheyney, Assistant Engineer, from $1,800 to $2,100 per annum. He was appointed July, 1903; on May 9, 1906, he was transferred to the Topographical Bureau at the present rate.

Charles Tilgner, Assistant Engineer, from $1,800 to $2,100 per annum. He was appointed July, 1904; on May 1, 1906, was transferred to the Topographical Bureau at the present rate.

George J. Schweitzer, Assistant Engineer, from $1,800 to $2,100 per annum. He was appointed April 16, 1901; on May 1, 1906, increased to present rate.

Frederick E. Lane, Assistant Engineer, from $1,800 to $2,100 per annum. He was appointed July, 1902; on May 7, 1906, was transferred to Topographical Bureau at the present rate.

Francis Martin, Transitman, from $1,500 to $1,600 per annum. He was appointed August 1, 1900; on April 1, 1907, transferred to the Topographical Bureau at present rate.

William E. McLaughlin, Topographical Draftsman, from $1,200 to $1,500 per annum. He was appointed December 7, 1908, at the present rate.

Elias J. Siegel, Clerk, from $900 to $1,200 per annum. He was appointed April 4, 1905; on March 15, 1909, he was increased to present rate.

John F. Hurley, Clerk, from $540 to $750 per annum. He was appointed May 6, 1907; on November 2, 1909, he was transferred to Topographical Bureau at present rate.

William M. Hansen, Laborer, from $2.50 to $3 per diem. He was appointed in May, 1905; on December 17, 1906, increased to present rate.

John J. Egan, Laborer, from $2.50 to $3 per diem. He was appointed in May, 1902; on December 17, 1906, increased to present rate.

James J. Stackpole, Laborer, from $2.50 to $3 per diem. He was appointed June 15, 1903; on December 17, 1906, increased to present rate.

James W. O'Brien, Laborer, from $2.50 to $3 per diem. He was appointed June 15, 1904; on March 11, 1907, increased to present rate.

Francis M. Keenan, Laborer, from $2.50 to $3 per diem. He was appointed June 10, 1907; on July 13, 1908, increased to present rate.

Henry Ashcroft, Laborer, from $2.50 to $3 per diem. He was appointed April 13, 1908; on April 26, 1909, increased to present rate.

Victor A. Beard, Laborer, from $2.50 to $3 per diem. He was appointed June 1, 1909; on June 14, 1909, was transferred to the Topographical Bureau at present rate.

The Acting President states that the employees of the Topographical Bureau are paid out of corporate stock accounts; that the increases asked are for deserving employees who have not received increases for some time; that the increased work of the Bureau for the coming year will necessitate the employment of an additional Draftsman and an additional Rodman.

The following table shows the changes in detail.

Schedule Line.	Schedule Transfer.	
	Decrease.	Increase.
Assistant Engineer, at $4,000	....	$4,000 00
Assistant Engineer, 1 at $3,000	....	3,000 00
Assistant Engineers, 2 at $2,700	....	2,700 00
Assistant Engineers, 2 at $2,400	$2,400 00	....
Assistant Engineers, 2 at $2,250	2.250 00	....
Assistant Engineers, 5 at $2,100	....	8,400 00

	Schedule Transfer.	
Schedule Line.	Decrease.	Increase.
Assistant Engineers, 7 at $1,800	9,000 00	....
Transitmen, 3 at $1,650	....	1,650 00
Transitman, 1 at $1,500	1,500 00	....
Topographical Draughtsmen, 2 at $1,500	....	3,000 00
Topographical Draughtsman, 1 at $1,200	1,200 00	....
Rodmen, 5 at $1,200	....	1,200 00
Clerk, 1 at $1,200	....	1,200 00
Clerk, 1 at $900	900 00	....
Clerk, 1 at $750	....	750 00
Clerk, 1 at $540	540 00	....
	$17,790 00	$25,900 00
Wages, Regular Force:		
Laborers, 1 at $3 per diem, 302 days	....	6,342 00
Laborers, 7 at $2.50 per diem, 302 days	5,285 00	....

The attached resolution, if adopted, will grant the request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised for the Topographical Bureau, in the office of the President of the Borough of Brooklyn, for the year 1911, to be effective as of July 1, 1911, as follows:

President, Borough of Brooklyn.

Topographical Bureau—

Salaries, Regular Force:

Chief Engineer	1 at	$6,000 00
Assistant Engineer	1 at	4,000 00
Assistant Engineers	2 at	3,000 00
Assistant Engineers	3 at	2,700 00
Assistant Engineer	1 at	2,400 00
Assistant Engineer	1 at	2,250 00
Assistant Engineer	1 at	2,100 00
Assistant Engineers	2 at	1,800 00
Transitman and Computer	2 at	1,800 00
Transitmen	2 at	1,800 00
Transitmen,	4 at	1,650 00
Topographical Draftsmen	2 at	1,800 00
Topographical Draftsmen	2 at	1,650 00
Topographical Draftsmen	4 at	1,500 00
Searcher	1 at	1,800 00
Chainmen and Rodmen	3 at	1,200 00
Rodmen	6 at	1,200 00
Axemen	3 at	900 00
Stenographer and Typewriter	1 at	1,500 00
Stenographer and Typewriter	1 at	1,200 00
Clerk	1 at	1,200 00
Clerk,	1 at	750 00
Messenger	1 at	1,050 00

Wages, Regular Force:

Assistant Foreman, 1 (302 days), at $3.50 per day.

Laborers, 8 (302 days), at $3.00 per day.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following report of the Comptroller recommending the modification of salary schedule No. 1342, of the Department of Taxes and Assessments, in order to provide for a proper accounting of salaries paid jointly out of budget appropriation and special revenue bonds:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 26, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 20 this Board approved of a schedule of salaries for the Department of Taxes and Assessments. The schedule as approved included a provision for salary increases to be paid from an issue of special revenue bonds, and further provision for the payment of added force out of special revenue bonds. The schedule combined the force without respect to the source of funds used for payment of salaries.

It has been the practice to establish separate schedules for those portions of salaries paid out of special revenue bonds. The result has been two unconnected schedules, neither of which showed the real payroll conditions. For instance, in the case where three clerks were increased from $1,200 to $1,350 each, the schedule did not show the increase, but still carried the clerks at $1,200 each.

On an entirely separate and isolated schedule there would appear a line, three clerks at $450 per annum, without anything to indicate that the $450 was to be used to pay increases of $150 per year, each, to three clerks drawing $1,200 per annum, each, from the budget appropriation. This has resulted in difficulty and inconvenience in auditing payrolls The difficulties can be eliminated by the adoption of a schedule which will show not only the amount to be paid to each employee out of the budget appropriation, but will show, also, the amount each employee is to receive from the proceeds of special revenue bonds. This combination schedule will not affect in any way the budget schedule which will remain as an independent schedule, although, for administrative and accounting purposes, it will be coupled with the corresponding schedule of salaries and portions of salaries paid out of special revenue bonds.

By having opposite each title of position the number of incumbents, the amount paid out of budget appropriation, the amount paid out of the special revenue bond funds, and the total, a better control will be assured.

Attached hereto is a schedule of salaries, set up as proposed above. I recommend its adoption. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of a schedule of salaries, as revised, for Account No. 1342 in the budget appropriation for the Department of Taxes and Assessments for the year 1911, also a schedule of salaries and parts of salaries payable from Special Revenue Bond Funds to employees scheduled in part under budget salary Account No. 1432, as follows:

Department of Taxes and Assessments.

		Paid from Budget Appropriation.	Paid from Special Revenue Bond Funds.	Total.
1342.	Salaries:			
	President, 1 at $8,000	$8,000 00	....	$8,000 00
	Commissioners, 6 at $7,000	42,000 00	....	42,000 00
	Secretary, 1 at $4,500	4,500 00	....	4,500 00
	Assistant Secretary, 1 at $3,200	3,200 00	....	3,200 00
	Assistant to Commissioner, 1 at $5,000	5,000 00	....	5,000 00
	Assistants to Commissioners, 6 at $2,500	15,000 00	....	15,000 00
	Deputy Tax Commissioner, 1 at $4,500	4,500 00	....	4,500 00
	Deputy Tax Commissioners, 4 at $4,000	16,000 00	....	16,000 00
	Deputy Tax Commissioner, 1 at $4,000	3,500 00	$500 00	4,000 00
	Deputy Tax Commissioners, 2 at $4.000	6,500 00	1,500 00	8,000 00
	Deputy Tax Commissioner, 1 at $4,000	2,700 00	1,300 00	4,000 00
	Deputy Tax Commissioners, 3 at $3,500	10,500 00	....	10,500 00
	Deputy Tax Commissioners, 2 at $3,500	6,000 00	1,000 00	7,000 00
	Deputy Tax Commissioners, 4 at $3,250	13,000 00	....	13,000 00
	Deputy Tax Commissioners, 7 at $3,250	19,950 00	2,800 00	22,750 00
	Deputy Tax Commissioners, 5 at $3,250	13,500 00	2,750 00	16,250 00
	Deputy Tax Commissioner, 1 at $3,000	3,000 00	....	3,000 00
	Deputy Tax Commissioner, 1 at $3,000	2,850 00	150 00	3,000 00
	Deputy Tax Commissioner, 1 at $3,000	2,700 00	300 00	3,000 00

	Paid from Budget Appropriation.	Paid from Special Revenue Bond Funds.	Total.
Deputy Tax Commissioners, 3 at $3,000...	7,650 00	1,350 00	9,000 00
Deputy Tax Commissioner, 1 at $2,850....	2,250 00	600 00	2,850 00
Deputy Tax Commissioners, 14 at 2,700..	31,500 00	6,300 00	37,800 00
Deputy Tax Commissioners, 3 at $2,700...	6,300 00	1,800 00	8,100 00
Deputy Tax Commissioners, 3 at $2,550...	7,650 00	....	7,650 00
Deputy Tax Commissioners, 10 at $2,550..	19,500 00	6,000 00	25,500 00
Deputy Tax Commissioners, 4 at $2,400...	9,600 00	....	9,600 00
Deputy Tax Commissioners, 2 at $2,400...	3,900 00	900 00	4,800 00
Deputy Tax Commissioners, 13 at $2,400..	23,400 00	7,800 00	31,200 00
Deputy Tax Commissioners, 12 at $2,400..	....	28,800 00	28,800 00
Deputy Tax Commissioner, 1 at $1,650....	....	1,650 00	1,650 00
Surveyor, 1 at $7,000....................	7,000 00	....	7,000 00
Chief Deputy of Real Estate, 1 at $7,000..	7,000 00	....	7,000 00
Chief Deputy of Personal Estate, 1 at $4,000	4,000 00	....	4,000 00
Chief Clerk, 1 at $3,000..................	3,000 00	....	3,000 00
Chief Clerk, 3 at $2,550..................	7,650 00	....	7,650 00
Clerk, 1 at $1,800........................	....	1,800 00	1,800 00
Clerks, 3 at $1,800.......................	5,400 00	....	5,400 00
Clerks, 2 at $1,800.......................	3,300 00	300 00	3,600 00
Clerks, 4 at $1,650.......................	6,600 00	....	6,600 00
Clerks, 4 at $1,650.......................	6,000 00	600 00	6,600 00
Clerks, 14 at $1,500......................	21,000 00	....	21,000 00
Clerks, 2 at $1,500.......................	2,700 00	300 00	3,000 00
Clerk, 1 at $1,500........................	....	1,500 00	1,500 00
Clerks, 11 at $1,350......................	14,850 00	....	14,850 00
Clerks, 3 at $1,350.......................	3,600 00	450 00	4,050 00
Clerks, 21 at $1,200......................	25,200 00	....	25,200 00
Clerks, 4 at $1,200.......................	4,200 00	600 00	4,800 00
Clerks, 11 at $1,050......................	11,550 00	....	11,550 00
Clerks, 10 at $1,050......................	9,000 00	1,500 00	10,500 00
Clerk, 1 at $1,050........................	750 00	300 00	1,050 00
Clerk, 1 at $1,050........................	....	1,050 00	1,050 00
Clerk, 1 at $900..........................	900 00	....	900 00
Clerks, 13 at $900........................	9,750 00	1,950 00	11,700 00
Clerk, 1 at $900..........................	600 00	300 00	900 00
Clerks, 5 at $750.........................	3,750 00	....	3,750 00
Clerks, 9 at $750.........................	5,400 00	1,350 00	6,750 00
Clerk, 1 at $750..........................	540 00	210 00	750 00
Clerks, 12 at $750........................	....	9,000 00	9,000 00
Clerks, 2 at $600.........................	....	1,200 00	1,200 00
Clerks, 3 at $540.........................	1,620 00	....	1,620 00
Clerk, 1 at $420..........................	420 00	....	420 00
Searchers, 2 at $1,500....................	2,700 00	300 00	3,000 00
Searcher, 1 at $1,500.....................	....	1,500 00	1,500 00
Searcher, 1 at $1,350.....................	1,350 00	....	1,350 00
Searcher, 1 at $1,350.....................	1,200 00	150 00	1,350 00
Searchers, 2 at $1,200....................	2,400 00	....	2,400 00
Searcher, 1 at $1,200.....................	1,050 00	150 00	1,200 00
Confidential Stenographers, 2 at $1,650....	3,300 00	....	3,300 00
Confidential Stenographer, 1 at $1,500.....	1,350 00	150 00	1,500 00
Confidential Stenographers, 2 at $1,350....	2,700 00	....	2,700 00
Confidential Stenographers, 2 at $1,200....	2,400 00	....	2,400 00
Messenger, 1 at $1,800....................	1,650 00	150 00	1,800 00
Messengers, 3 at $1,350...................	4,050 00	....	4,050 00
Messenger, 1 at $1,350....................	1,200 00	150 00	1,350 00
Book Typewriters, 5 at $1,050.............	4,500 00	750 00	5,250 00
Balance unassigned	50 00	80 00	130 00
	$489,830 00	$91,290 00	$581,120 00

Which was adopted by the following vote:
Affirmative—The Comptroller, the Acting President of the Board of Aldermen,

the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Chief Clerk of the Court of Special Sessions, requesting a modification of the salary schedule for the Court for the year 1911, together with a report of the Comptroller recommending that said request be not approved, as it would necessitate the use of salary accruals:

Clerk's Office, Court of Special Sessions, Corner Franklin and Centre Streets, New York, July 12, 1911.

To the Honorable the Board of Estimate and Apportionment of The City of New York, 280 Broadway, City:

Dear Sir—Request is hereby made for the modification of Salary Schedule No. 1423, Lines 37 and 38, supporting the appropriation made in the Budget for the year 1911 for the Court of Special Sessions, to be effective July 21, 1911, providing for the increase in the salary of Clerk of Court, Brooklyn, from $3,000 to $4,000 per annum, and the increase in salary of Deputy Clerk, Brooklyn, from $2,500 to $3,500 per annum, involving the transfer of $887.06 within the said appropriation.

Respectfully, FRANK W. SMITH, Chief Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 12, 1911, the Chief Clerk in the Court of Special Sessions requested modification of the salary schedule for the Court for the year 1911. In connection therewith I report as follows:

It is proposed to use $887.06 in salary account to increase the compensation of the Clerk and the Deputy Clerk in Part II., Borough of Brooklyn. The grades of positions for the proposed increases were approved by the Board of Estimate and Apportionment on July 6, 1911, and were fixed by the Board of Aldermen on July 11.

The use of accruals is contrary to the resolutions governing the 1911 Budget.

We recommend, therefore, that the request be not approved, and that the Secretary of the Board be directed to notify the Chief Clerk of the Court of Special Sessions that if other funds are not available, the proper procedure would be to make application for special revenue bonds in the necessary amount. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the request of the Court of Special Sessions, as contained in the communication dated July 12, 1911, for the modification of salary schedule 1423, lines 37 and 38, supporting the appropriation made in the Budget for the year 1911, be and the same is hereby disapproved.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary was directed to transmit a copy of the report of the Comptroller to the Chief Clerk, Court of Special Sessions.

The Secretary presented a report of Comptroller in the matter of a request of the Fire Commissioner for authority to purchase two automobiles at an expenditure not exceeding $4,000 each, and recommending that the Fire Commissioner be notified that the automobile for the Chief of Department should not be charged to corporate stock, and that expenditure for an automobile for the Electrical Engineer should not exceed $2,000.

Which was referred to the Fire Commissioner.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending approval, pursuant to resolution adopted June 3, 1910, of specifications and estimate of cost ($16,800), for two three-ton motor trucks, two one and one-half-ton motor trucks and two self-propelled wagons for the use of the said Department:

Fire Department of The City of New York, Office of the Commissioner, May 22, 1911.

Hon. William A. Prendergast, *Comptroller:*

Sir—I have the honor to forward herewith for the approval of the Board of Estimate and Apportionment specifications for two three-ton motor trucks, equipped with power winch for pulling cable, two one and one-half-ton motor trucks and two self-propelled wagons.

It is proposed to purchase one three-ton motor truck, one one and one-half-ton motor truck and one self-propelled wagon under C-FD-3B, "for the purpose of providing means for the installation of a new fire alarm system in the Borough of Manhattan," at an estimated cost of $8,400, and also to purchase one three-ton motor truck, one one and one-half-ton motor truck and one self-propelled wagon under C-FD-22, "for placing electrical conductors underground," at an estimated cost of $8,400.

These trucks are intended for use in installing cable, fire alarm posts and boxes in connection with the new fire alarm telegraph system for the Borough of Manhattan and for placing fire alarm conductors underground, in the Borough of Brooklyn. The self-propelled wagons are for the use of the Engineers and Inspectors in the Fire Alarm Telegraph Bureau, for the purpose of collecting information and data from which to prepare specifications for this work and for supervising the installation of the work. Respectfully, R. WALDO, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 22, 1911, the Fire Commissioner requested approval of the specifications and estimated costs in the sum of $16,800 for two three-ton motor trucks, equipped with power winch for pulling cable, two one and one-half-ton motor trucks and two self-propelled wagons.

The estimated cost for the three-ton trucks are $4,700 each, for the one and one-half-ton trucks $3,000 each, and for the self-propelled wagons $700 each.

It is stated by the Commissioner that the trucks are intended for use in installing cable, fire alarm posts and boxes in connection with the new fire alarm telegraph system for the Borough of Manhattan, and for placing fire alarm conductors underground in the Borough of Brooklyn. The self-propelled wagons are for the use of the Engineers and Inspectors in the Fire Alarm Telegraph Bureau, for the purpose of collecting information and data from which to prepare specifications for this work and for supervising the installation of the work.

It is proposed to purchase one three-ton truck, one one and one-half-ton truck and one self-propelled wagon from the corporate stock fund entitled C-FD-3B, for the purpose of providing means for the installation of a new fire alarm system in the Borough of Manhattan, and one three-ton truck, one one and one-half-ton truck and one self-propelled wagon from the corporate stock fund entitled C-FD-22, underground electrical conductors, Borough of Brooklyn.

There is a sufficient unencumbered balance in each fund for the purpose.

With the consent of the Fire Commissioner, the Department of Finance has made the following changes in the specifications:

In the specifications for the three-ton and the one and one-half-ton trucks the guarantee clause has been changed to read as follows:

"Guarantee—The contractor shall guarantee the apparatus against all defects of material, workmanship and design."

The following clause has been added to each specification:

"The bond shall be for the full amount of the contract and shall continue for one year from the date of the acceptance of the trucks by the Fire Department."

In the specification for the self-propelled wagons, the words "cylinders shall have removable heads," have been stricken out in order to allow better competition.

As the trucks are to be used exclusively upon corporate stock work, the cost of their purchase is properly chargeable to corporate stock funds.

I recommend that the specifications (as amended) and the estimates of cost be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on June 3, 1910, hereby approves the specifications and estimate of cost, sixteen thousand eight hundred dollars ($16,800), for two three-ton motor

trucks, equipped with power winch for pulling cable; two one and one-half-ton motor trucks, and two self-propelled wagons, for the use of the Fire Department.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communications from the Department of Docks and Ferries requesting, and report of the Comptroller recommending, modification of two wage schedules, Nos. 189 and 195, in said Department for the year 1911, involving a transfer of $4,739:

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, May 12, 1911.

Hon. William A. Prendergast, *Comptroller:*

Sir—On March 27, 1911, a letter was sent to the Board of Estimate and Apportionment, asking that in the 1911 Budget the sum of $4,770 allowed for Stationary Engineers, in Line 189, be transferred to Line 195, Wages of Temporary Mechanics and Helpers. That letter requested that the item of $4,770 be assigned to cover emergency time for Mechanics and Helpers.

The request was referred to you for investigation and report, and I understand some objection has been raised as to assignment of the money in bulk under the heading suggested.

Since the submission of our former request, charges have been made against Line 189 to the extent of $30.94, leaving the balance now in that line $4,379, instead of the original amount of $4,770.

I now submit the following suggested detailed allotment of the amount to various positions and ask that the Budget be modified by the transfer of the sum of $4,739, from Line 189, and by the assignment of said amount to the various positions in Line 195, as follows:

Title.	Number.	Rate.	Amount.
Pipefitters	225	$5 50	$1,237 50
Pipefitter's Helper	225	3 00	675 00
Machinists	202	4 50	909 00
Machinist's Helper	303	3 00	909 00
Dock Builders	47	3 50	164 50
Foreman Dock Builder	10	4 50	45 00
Ship Carpenter	43	4 00	172 00
Carpenters	60	4 80	288 00
Riggers	45	3 50	157 50
Blacksmith	12	4 50	54 00
Blacksmith's Helper	12	3 00	36 00
Dock Laborer	15	2 50	37 50
Wiremen	12	4 50	54 00
			$4,739 00

Yours respectfully, CALVIN TOMKINS, Commissioner of Docks.

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, May 18, 1911.

Hon. William A. Prendergast, *Comptroller:*

Sir—In a letter sent to you under date of May 12, 1911, asking transfer of the sum of $4,739, from Line 189, to Line 195, in this Department's 1911 Budget, several titles were referred to in the singular number, such as Pipefitter's Helper, Machinist's Helper, etc.

It is desired that all of these titles in the detailed statement be provided for in the plural number.

Yours very truly, CALVIN TOMPKINS, Commissioner of Docks.

Department of Docks and Ferries, City of New York, Pier "A," North River, New York, March 27, 1911.

Hon. William J. Gaynor, *Mayor, Chairman, Board of Estimate and Apportionment:*

Sir—In the Budget of this Department for the year 1911, Code No. 189, Wages of Temporary Employees, allows the sum of $4,770 for Stationary Engineers at $4.50 per day. Code No. 195, Wages of Temporary Employees, makes allowance for wages for temporary employment of Mechanics and Helpers.

From time to time we have occasion to use Mechanics and Helpers for more than eight hours per day in emergency cases which arise in connection with repairs to ferryboats while on the run, the employment of these Mechanics and Helpers in excess of eight hours being necessary to avoid laying up of boat and thus crippling the service.

We have no appropriation at present to pay the wages of these Mechanics and Helpers for the overtime. There is now due various employees for such work $186.75.

From present indications the amount allowed in Code No. 189 for temporary employment of Stationary Engineers, $4,770, will not be required for temporary Stationary Engineers, owing to rearrangement of the force of Engineers.

I respectfully request that the amount of $4,770, allowed in Code No. 189, for temporary employment of Stationary Engineers, be transferred to Code No. 195, and that it be classified in Code No. 195 as Emergency Time for Mechanics and Helpers, $4,770.

Yours respectfully, CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 12, 1911, the Commissioner of Docks requested modification of two wage schedules, involving the transfer of $4,739, in the Department of Docks and Ferries, for the year 1911. In connection therewith I report as follows:

The request is in the Bureau of Ferries, Operation, No. 189, and Bureau of Ferries, Maintenance, No. 195. It is proposed to add to No. 195 Mechanics required for emergency work. The $4,739 necessary is to be covered by striking out Piledriver or Stationary Engineers, at $4.50 per day (1,060 days), $4,770, in No. 189.

The Commissioner states the following:

"From time to time we have occasion to use Mechanics and Helpers for more than eight hours per diem in emergency cases which arise in connection with repairs to ferryboats while on the run, the employment of these Mechanics and Helpers in excess of eight hours being necessary to avoid laying up of boat and thus crippling the service. We have no appropriation at present to pay the wages of these Mechanics and Helpers for the overtime."

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
189.	Piledriver or Stationary Engineers, at $4.50 per day (1,060 days).......	$4,739 00	....	$4,739 00	....
195.	Pipefitters, at $5.50 per diem (225 days).......	....	$1,237 50	....	$1,237 50
	Pipefitters' Helpers, at $3 per diem (225 days)...	....	675 00	....	675 00
	Machinists, at $4.50 per diem (202 days).......	....	909 00	....	909 00
	Machinists' Helpers, at $3 per diem (303 days)...	....	909 00	....	909 00
	Dock Builders, at $3.50 per diem (47 days)....	....	164 50	....	164 50
	Foreman Dock Builder, at $4.50 per diem (10 days)	....	45 00	....	45 00
	Ship Carpenter, at $4 per diem (43 days)........	....	172 00	....	172 00
	Carpenters, at $4.80 per diem (60 days)........	....	288 00	....	288 00
	Riggers, at $3.50 per diem (45 days)	....	157 50	....	157 50
	Blacksmith, at $4.50 per diem (12 days)........	....	54 00	....	54 00

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
	Blacksmith's Helper, at $3 per diem (12 days).	....	36 00	....	36 00
	Dock Laborers, at $2.50 per diem (15 days)...	....	37 50	....	37 50
	Wireman, at $4.50 per diem (12 days)........	....	54 00	....	54 00
		$4,739 00	$4,739 00	$4,739 00	$4,739 00

It is stated that no increase in compensation is involved.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Docks and Ferries, for the year 1911, to be effective June 1, 1911, as follows:

Department of Docks and Ferries.

Bureau of Ferries, Operation—

189. Wages, Temporary Employees:	
Marine Stokers, at $1,080 per annum (1,638 days)............	$4,860 00
Ticket Choppers, at $792 per annum (765 days)..............	1,650 00
Accrued balance of transfer to No. 195......................	31 00
	$6,541 00

Bureau of Ferries, Maintenance—

195. Wages, Temporary Employees:	
Machinists, at $4.50 per day (300 days)......................	$1,350 00
Machinists' Helpers, at $3 per day (387 days).................	1,161 00
Sawfiler, at $4 per day (52 days)............................	208 00
Diver, at $10 per day (61 days)..............................	610 00
Diver's Attendants, at $3.50 per day (61 days)...............	213 50
Diver's Assistants, at $2.50 per day (366 days)...............	915 00
Painters, at $4 per day (3,030 days)..........................	12,120 00
Pipefitters, at $5.50 per day (225 days)......................	1,237 50
Pipefitters' Helpers, at $3 per day...........................	675 00
Dock Builder, at $3.50 per day (47 days)......................	164 50
Foreman Dock Builder, at $4.50 per day (10 days)............	45 00
Ship Carpenter, at $4 per day (43 days)......................	172 00
Carpenters, at $4.80 per day (60 days).......................	288 00
Riggers, at $3.50 per day (45 days)..........................	157 50
Blacksmith, at $4.50 per day (12 days).......................	54 00
Blacksmith's Helper, at $3 per day (12 days).................	36 00
Dock Laborer, at $2.50 per day (15 days).....................	37 50
Wiremen, at $4.50 per day (12 days)..........................	54 00
	$19,498 50

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated to the Department of Docks and Ferries for the year 1911, to be effective as of June 1, 1911, as follows:

From

Department of Docks and Ferries.

Bureau of Ferries, Operation—	
189. Wages, Temporary Employees	$4,739 00

To

Bureau of Ferries, Maintenance—	
195. Wages, Temporary Employees	$4,739 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Public Service Commission for the First District, and report of Corporate Stock Budget Committee in the matter of the request of the said Commission for an authorization of corporate stock to the amount of $100,000 for the acquisition of real estate and interests therein necessary for the construction and operation of the Manhattan-Bronx Rapid Transit Railroad:

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, June 30, 1911.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you as a part hereof a requisition for the sum of one hundred thousand dollars ($100,000) for the acquisition of real estate or interests therein necessary for the construction and operation of the Manhattan-Bronx Rapid Transit Railroad. Pursuant to requisitions made by the former Board of Rapid Transit Railroad Commissioners and this Commission the following amounts have already been appropriated by the Board of Estimate and Apportionment for the acquisition of real estate or interests therein for the said Manhattan-Bronx Rapid Transit Railroad:

1900	$500,000 00
1904	1,500,000 00
Making a total of	$2,000,000 00
Of which there has been expended to date the sum of, approximately	1,874,500 00
Leaving a balance of unissued bonds of	125,500 00

These amounts do not include premiums realized from the sale of bonds.

In addition to the amounts so appropriated the sum of $6,000 was appropriated on January 24, 1908, to pay for easements on the east side of Broadway at 233d street, and the sum of $500,000 was appropriated on January 31, 1908, to pay awards for property on 4th avenue, between 8th and 9th streets. These amounts, however, have been fully expended.

Certain awards have recently been made and confirmed for the easements condemned for the construction and operation of the said Manhattan-Bronx Rapid Transit Railroad on Westchester avenue, from 3d avenue to the Southern boulevard; on the Southern boulevard, from Westchester avenue to the Boston road, and thence on the Boston road to 181st street, in the Borough of The Bronx. The Commissioners of Appraisal in this matter filed their oaths of office on May 29, 1906, from which date, therefore, under the Rapid Transit Act, interest on the awards runs, and the amount of the awards so made and confirmed, with interest from May 29, 1906, is approximately $190,000.

Certain awards made and expenses incurred in the Fort George and Van Cortlandt Park condemnation proceedings are also still to be paid.

The Public Service Commission for the First District, therefore, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and pursuant to the provisions of the Public Service Commissions Law, being chapter 48 of the Consolidated Laws, hereby makes requisition upon the Board of Estimate and Apportionment of The City of New York for the authorization of the further amount of corporate stock of The City of New York to be issued and sold by the Comptroller sufficient to pay the estimated expense of the acquisition of real estate or of interests therein necessary for the construction and operation of the Manhattan-Bronx Rapid Transit Railroad, being the rapid transit railroad constructed under the contract of February 21, 1900, between The City of New York and John B. McDonald, that is to say, the sum of one hundred thousand dollars ($100,000).

In witness whereof, the Public Service Commission for the First District has caused this requisition to be subscribed by its Chairman and Secretary and its official seal to be hereto affixed this 30th day of June, 1911.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by W. R. Willcox, Chairman. [seal]

Attest: Travis H. Whitney, Secretary.

Resolved, That the Public Service Commission for the First District make requisition upon the Board of Estimate and Apportionment of The City of New York for the authorization of a further amount of corporate stock of The City of New York to be issued and sold by the Comptroller in addition to the amounts of corporate stock already authorized to be issued sufficient to pay the estimated expense of the acquisition of real estate and of interests therein necessary for the construction and operation of the Manhattan-Bronx Rapid Transit Railroad, that is to say, the sum of one hundred thousand dollars ($100,000), and that the Chairman and the Secretary be and they hereby are authorized and directed to send a communication including a requisition for the said sum of one hundred thousand dollars ($100,000) to the said Board of Estimate and Apportionment in the following form:

State of New York, County of New York, ss.:

I, Travis H. Whitney, Secretary of the Public Service Commission for the First District, do hereby certify that I have compared the above with the original adopted by said Commission on June 30, 1911, and that it is a correct transcript therefrom and of the whole of the original.

In testimony whereof, I have hereunto subscribed my hand and affixed the seal of the Commission this 30th day of June, 1911.

[seal] Travis H. Whitney, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 30, 1911, the Public Service Commission for the First District made requisition upon the Board of Estimate and Apportionment for corporate stock to the amount of $100,000 for the acquisition of real estate and interests therein necessary for the construction and operation of the Manhattan-Bronx Rapid Transit Railroad. In connection herewith we report as follows:

Pursuant to requisitions made by the former Board of Rapid Transit Railroad Commissioners, and the present Public Service Commission for the First District, the following amounts have already been appropriated for the acquisition of real estate and interest therein for the Manhattan-Bronx Rapid Transit Railroad:

March 1, 1900	$500,000 00
February 5, 1904	500,000 00
December 16, 1904	1,000,000 00
Total	$2,000,000 00

The expenditures to June 30, 1911, amounted to $1,903,943.51, leaving a balance of $96,056.49.

The Commission estimates that the $100,000 will be required to pay the awards recently made and confirmed for the easements for the construction and operation of the Manhattan-Bronx Rapid Transit Railroad, on Westchester avenue from 3d avenue to the Southern boulevard, on the Southern boulevard from Westchester avenue to the Boston road, and thence on the Boston road to 181st street, Borough of The Bronx.

There are claims for the awards in the Department of Finance to the amount of $150,085.08, with interest thereon from May 29, 1906, the date on which the Commissioners of Appraisal filed their oaths of office, to August 29, 1911, the date set for the payment of said awards, amounting to $47,276.80, making the total amount $197,361.80.

In view of the fact that the balance available only amounts to $96,056.49 there is need for the $100,000 requested.

We recommend, therefore, the adoption of the attached resolution approving the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; ...., President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37, of chapter 4, Laws of 1891, as amended, and chapter 429, Laws of 1907, as amended, and a requisition of the Public Service Commission for the First District, duly made by the Chairman and Secretary thereof on June 30, 1911, the Comptroller be and is hereby authorized to issue corporate stock of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), the proceeds whereof to be applied to the purchase of real estate or interest therein, to meet the requirements under the contract with John B. McDonald for the construction and operation of the Rapid Transit Railroad of The City of New York.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Public Service Commission for the First District requesting, and report of the Corporate Stock Budget Committee in the matter of the requisition of said Commission for $10,720 for the cost of changes in the Manhattan-Bronx Rapid Transit Railroad structure, necessitated by the widening of 207th street at Broadway, and 42d street, west of 5th avenue:

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, June 23, 1911.

Joseph Haag, Esq., *Secretary, Board of Estimate and Apportionment,* 277 Broadway, New York City:

Dear Sir—The Commission is informed that under the date of April 6, 1911, at the request of the President of the Borough of Manhattan you appropriated the sum of $400,000 to cover the cost of widening certain streets and work incidental thereto, expressly mentioning changes in the Manhattan-Bronx Rapid Transit Railroad occasioned by such widening. The Commission has been requested by the President of the Borough of Manhattan to order its contractor to make such changes, but is advised by its Counsel that before issuing such orders an appropriation should be made against which the Commission can draw vouchers, as it cannot do with the present appropriation which is made to the credit of the President of the Borough of Manhattan.

The Commission is informed that changes in the subway structure due to the widening of 207th street at Broadway will cost about $2,400, and the changes in the subway structure under 42d street west of 5th avenue will be about $8,320. The Commission is further advised in this respect that expenditures such as this for other than railroad purposes cannot properly be charged against the railroad and made the basis for the payment of rental. In this respect the work will follow the precedent of the street widening at 3d avenue and 149th street, where the former Rapid Transit Board, at the request of the President of the Borough had the work done by its contractor, providing, however, in the agreement that the cost thereof should not be included in the cost of constructing the railroad and made the basis for the payment of additional rental.

The Commission, therefore, in pursuance of the provisions of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, hereby makes requisition upon the Board of Estimate and Apportionment for the sum of $10,720 for the purpose of making changes in the Manhattan-Bronx Rapid Transit Railroad necessitated by the widening of 207th street at Broadway, and of 42d street west of 5th avenue.

Very truly yours, TRAVIS H. WHITNEY, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 23, 1911, the Public Service Commission for the First District made requistion for $10,720 for the cost of changes in the Manhattan-Bronx Rapid Transit Railroad structure, necesssitated by the widening of 207th street at Broadway, and of 42d street, west of 5th avenue. In connection therewith, we report as follows:

On April 6, 1911, the Board of Estimate and Apportionment adopted a resolution approving of an issue of $400,000 corporate stock, to provide means for widening, regrading, recurbing and otherwise improving the roadways of certain streets, and for "moving and replacement of subway entrances, and for other expenses incidental to such widening." The resolution was approved by the Board of Aldermen on April 18, 1911.

It now appears that a special authorization of corporate stock is not necessary to meet the requisition. The President of the Borough of Manhattan has authority, under the provisions of the resolution providing the appropriation of $400,000 for widening streets, to use funds from that account to pay the cost of changes in subway structure occasioned by the street improvement.

We are informed that Ernest P. Goodrich, Consulting Engineer in the office of the President of the Borough of Manhattan, and Alfred Craven, Engineer of Subways of the Public Service Commission, are of the opinion that the cost of the changes in the subway structure will not exceed $10,720, and that the expense is properly chargeable to the appropriation for widening streets.

It is stated by the Public Service Commission that expenditures of this character, "for other than railroad purposes, cannot properly be charged against the railroad and made the basis for the payment of rental." In this respect the work will follow the precedent of the street widening at 3d avenue and 149th street, where the former Rapid Transit Board, at the request of the President of the Borough had the work done by its contractors, providing, however, in the agreement that the cost thereof should not be included in the cost of constructing the railroad and made the basis for the payment of additional rental."

We recommend the adoption of the attached resolution, granting the request.

WM. A. PRENDERGAST, Comptroller; ...., President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Public Service Commission is hereby notified that the cost of making changes in the Manhattan-Bronx Rapid Transit Railroad, necessitated by the widening of 207th street at Broadway, and of 42d street west of 5th avenue, to the extent of ten thousand seven hundred and twenty dollars ($10,720), is chargeable to appropriation account "C-PM-48, Widening, Repaving and Otherwise Improving Roadways in the Borough of Manhattan," provided that the plans for the changes and the work done under the direction of the Public Service Commission are approved by the President of the Borough of Manhattan; and it is further provided that all expenditures for the purposes mentioned shall be properly certified for payment to the President of the Borough of Manhattan by the Public Service Commission.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Comptroller in the matter of the request of the Secretary of the Armory Board for transfer of $166.85 within the appropriations made to the Armory Board for the year 1907, and recommending that the proper method of procedure to balance the accounts involved would be to request the issue of special revenue bonds.

The Secretary was directed to so notify the Secretary of the Armory Board.

The Secretary presented the following communication from the President of the Borough of The Bronx requesting, and report of the Corporate Stock Budget Committee recommending, modification of schedules for employees in the office of said Borough President, paid from other than Budgetary funds, involving salary increases in the sum of $5,050 per annum, and additional force in the sum of $5,700 per annum:

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the President, June 30, 1911.

Joseph Haag, Esq., *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I transmit herewith a salary schedule of employees whose time will be charged, either wholly or in part, against corporate stock which was requested on

January 25, 1911. This schedule should be considered by the Corporate Stock Budget Committee in connection with the appropriation of corporate stock.

Yours truly,

CYRUS C. MILLER, President of the Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 30, 1911, the President of the Borough of The Bronx requested modification of schedules paid for wholly or in part from other than Budget appropriations. In connection therewith we report as follows:

It is proposed to provide for salary increases and additional employees as follows:

Name and Title.	Present Salary.	Proposed Salary.	Increase.	Additions to Force.
Office of Chief Engineer of Sewers and Highways.				
R. H. Gillespie, Chief Engineer.....	$5,000 00	$6,000 00	$1,000 00	....
Bureau of Highways, Engineering Division.				
John R. Moore, Assistant Engineer..	2,700 00	3,000 00	300 00	....
Thomas B. Dyer, Assistant Engineer	2,250 00	2,500 00	250 00	....
F. F. McDowell, Assistant Engineer.	2,250 00	2,500 00	250 00	....
F. L. Smith, Assistant Engineer.....	1,950 00	2,100 00	150 00	....
Geo. C. Molloy, Assistant Engineer.	1,950 00	2,100 00	150 00	....
Geo. F. Capper, Transitman.......	1,500 00	1,650 00	150 00	....
W. A. Smith, Rodman to Transitman	1,200 00	1,500 00	300 00	....
A. Arent, Jr., Axeman to Rodman..	900 00	1,050 00	150 00	....
J. A. Spears, Axeman to Rodman..	900 00	1,050 00	150 00	....
Rose Jackson, Stenographer........	900 00	1,050 00	150 00	....
Topographical Bureau.				
Emil A. Wiggers, Topographical Draftsman	1,350 00	1,500 00	150 00	....
Jas. J. Walsh, Topographical Draftsman	1,200 00	1,350 00	150 00	....
Thos. F. Hennessy, Clerk..........	1,050 00	1,200 00	150 00	....
———, Clerk	....	....	....	$300 00
Bureau of Design.				
Chas. Gartensteig, Assistant Engineer	3,600 00	4,000 00	400 00	....
R. J. Smyth, Assistant Engineer.....	1,950 00	2,100 00	150 00	....
G. L. Bennett, Assistant Engineer..	2,250 00	2,400 00	150 00	....
———, Structural Steel Draftsman	....	....	....	1,800 00
———, Structural Steel Draftsman	....	....	....	1,800 00
A. Brenzinger, Topographical Draftsman	1,650 00	1,800 00	150 00	....
J. Sendach, Topographical Draftsman	1,350 00	1,500 00	150 00	....
E. Hohn, Topographical Draftsman.	1,350 00	1,500 00	150 00	....
J. L. Grindle, Mechanical Draftsman	1,650 00	1,800 00	150 00	....
———, Clerk	....	....	....	300 00
Bureau of Sewers, Engineering Division, Sewerage District Plans.				
W. E. Downs, Assistant Engineer..	1,800 00	1,950 00	150 00	....
W. E. Morris, Jr., Assistant Engineer	1,800 00	1,950 00	150 00	....
———, Topographical Draftsman.	....	....	....	1,500 00
			$5,050 00	$5,700 00

The total increases in salaries, as shown, amount to $5,050, and the added force represents an additional cost of $5,700 per year, making a total added cost per annum of $10,750.

It is stated by the President that the changes shown for the force assigned to the work of preparing sewerage and drainage district plans are not intended for immediate effect, but are proposed from January 1, 1912. The force assigned to this work is fixed as to the service performed and the funds from which the employees are paid are always the same. The schedule is therefore submitted in the form identical with a Budget schedule, where the force is fixed and the fund from which the individuals are paid is the same at all times. The balance unassigned is the amount of the authorization deemed to be available for the purpose of paying salaries, and may be modified when desired for the proposed January 1 increases.

The following table shows the line item changes in detail:

Code No.		Schedule Transfer.	
		Increase.	Decrease.
1734.	Assistant Engineer, 1 at $2,700	....	$2,700 00
	Assistant Engineer, 1 at $3,000	$3,000 00	....
	Assistant Engineers, 3 at $2,500	5,000 00	....
	Assistant Engineers, 3 at $2,250	....	4,500 00
	Assistant Engineer, 1 at $2,100	4,200 00	....
	Assistant Engineers, 3 at $1,950	....	3,900 00
	Transitman, 1 at $1,650	1,650 00	....
	Rodmen, 8 at $1,200	....	1,200 00
	Rodmen, 2 at $1,050	2,100 00	....
	Axemen, 5 at $900	....	1,800 00
	Stenographer and Typewriter, 1 at $900	....	900 00
	Stenographer and Typewriter, 1 at $1,050	1,050 00	....
	Laborer, 1 at $2.25	....	2 25
1716.	Chief Engineer, 1 at $5,000	....	5,000 00
	Chief Engineer, at $6,000	6,000 00	....
	Topographical Force:		
	Topographical Draftsmen, 4 at $1,500	1,500 00	....
	Topographical Draftsman, 1 at $1,200	....	1,200 00
	Clerk, at $1,200	1,200 00	....
	Clerk, 1 at $1,050	....	1,050 00
	Clerk, at $300	300 00	....
	Chainman and Rodman, 1 at $1,050	....	1,050 00
	Wages, Regular Employees:		
	Laborer, 1 at $3 per day	....	3 00
	Laborers, 2 at $2.50 per day	2 50	....
	Laborers, 2 at $2.25 per day	....	2 25
1714.	Assistant Engineer, 1 at $3,600	....	3,600 00
	Assistant Engineer, at $4,000	4,000 00	....
	Assistant Engineer, at $2,400	2,400 00	....
	Assistant Engineer, 1 at $2,250	....	2,250 00
	Assistant Engineer, at $2,100	2,100 00	....
	Assistant Engineer, 1 at $1,950	....	1,950 00
	Topographical Draftsmen, 2 at $1,800	1,800 00	....
	Topographical Draftsmen, 3 at $1,650	....	1,650 00
	Topographical Draftsmen, 4 at $1,500	4,500 00	....
	Topographical Draftsmen, 3 at $1,350	....	4,050 00
	Structural Steel Draftsmen, 3 at $1,800	3,600 00	....
	Mechanical Draftsmen, 2 at $1,800	1,800 00	....
	Mechanical Draftsmen, 2 at $1,650	....	1,650 00
	Clerk	300 00	....

We recommend the approval of the request, with the changes noted, and transmit herewith resolutions providing therefor.

Respectfully,

WM. A. PRENDERGAST, Comptroller; ...., President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of The Bronx for the year 1911, as follows:

Division Chief Engineer, Sewers and Highways—

1716. Salaries:

Chief Engineer	1 at	$6,000 00
Clerk	1 at	2,250 00
Clerk	1 at	1,350 00
Typewriting Copyist	1 at	1,200 00

Budgetary part allowance, $2,412.50.

Bureau of Highways, Engineering Division—

1734. Salaries, Regular Force:

Principal Assistant Engineer	1 at	$4,000 00
Assistant Engineer	1 at	3,000 00
Assistant Engineers	5 at	2,500 00
Assistant Engineer	1 at	2,250 00
Assistant Engineers	3 at	2,100 00
Assistant Engineer	1 at	1,950 00
Assistant Engineer	1 at	1,650 00
Transitman	1 at	1,800 00
Transitmen	2 at	1,650 00
Transitmen	5 at	1,500 00
Transitmen and Computers	2 at	1,650 00
Levelers	5 at	1,500 00
Topographical Draftsman	1 at	1,200 00
Rodmen	7 at	1,350 00
Rodmen	7 at	1,200 00
Rodmen	2 at	1,050 00
Chainmen and Rodmen	2 at	1,200 00
Axemen	3 at	1,050 00
Axemen	3 at	900 00
Inspector of Cement Tests	1 at	1,350 00
Clerks	2 at	1,350 00
Clerk	1 at	300 00
Typewriter Copyist	1 at	1,200 00
Stenographer and Typewriter	1 at	1,050 00

Budgetary part allowance, $28,000.

Division of Design—

1714. Salaries:

Assistant Engineer	1 at	$4,000 00
Assistant Engineer	1 at	3,000 00
Assistant Engineer	1 at	2,400 00
Assistant Engineer	1 at	2,100 00
Structural Steel Draftsmen	5 at	1,800 00
Topographical Draftsmen	3 at	1,800 00
Topographical Draftsmen	2 at	1,650 00
Topographical Draftsmen	7 at	1,500 00
Mechanical Draftsmen	3 at	1,800 00
Mechanical Draftsman	1 at	1,650 00
Leveler	1 at	1,500 00
Clerk	1 at	600 00
Clerk	1 at	300 00
Stenographer and Typewriter	1 at	1,200 00

Budgetary part allowance, $10,100.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following schedule, as revised, for the corporate stock force in the office of the President of the Borough of The Bronx, Drainage and Sewerage District Plans:

President, Borough of The Bronx.

Corporate Stock Force (C. P. X. 25)—

Salaries:

Assistant Engineer	1 at	$3,000 00
Assistant Engineers	2 at	1,800 00

Computer	1 at	1'500 00
Leveler	1 at	1,500 00
Rodman	1 at	1,350 00
Rodman	1 at	1,200 00
Axeman	1 at	1,050 00
Unallotted balance		1,800 00
		$15,000 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the following schedule, as revised, for the Topographical Force in the office of the President of the Borough of The Bronx:

President, Borough of The Bronx.

Topographical Force—

Salaries:		
Assistant Engineer	1 at	$4,000 00
Assistant Engineer	1 at	3,600 00
Assistant Engineer	1 at	3,300 00
Assistant Engineer	1 at	3,000 00
Assistant Engineer	1 at	2,400 00
Assistant Engineer	1 at	2,250 00
Assistant Engineers	3 at	2,100 00
Assistant Engineers	7 at	1,950 00
Assistant Engineer	1 at	1,800 00
Transitman	1 at	1,500 00
Transitmen	2 at	1,350 00
Transitmen and Computers	2 at	1,650 00
Transitman and Computer	1 at	1,500 00
Computers	2 at	1,800 00
Computers	2 at	900 00
Topographical Draftsmen	2 at	1,950 00
Topographical Draftsmen	3 at	1,800 00
Topographical Draftsmen	13 at	1,650 00
Topographical Draftsmen	5 at	1,500 00
Topographical Draftsman	1 at	1,350 00
Leveler	1 at	1,350 00
Leveler	1 at	1,200 00
Chainmen and Rodmen	5 at	1,350 00
Chainmen	2 at	1,200 00
Rodmen	2 at	1,350 00
Rodmen	3 at	1,050 00
Axemen	3 at	900 00
Stenographer and Typewriter	1 at	1,500 00
Clerk	1 at	1,500 00
Clerk	1 at	1,200 00
Clerk	1 at	300 00
Wages, Regular Employees:		
Laborers, per diem	4 at	2 50
Driver, per diem	1 at	3 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Commissioner of Water Supply, Gas and Electricity requesting an appropriation of $8,500 from the water revenues received in the Borough of Brooklyn, to provide for the equipment of additional quarters allotted to the Water Registrar in the Borough; together with a report of the Comptroller recommending the approval of said request:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13 to 21 Park Row, City of New York, July 15, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—The offices in the Municipal Building, Borough of Brooklyn, formerly occupied by the Coroner's office, have been assigned by the Sinking Fund Commissioners to the use of this Department, and I want to equip these new quarters for the Water Register's force. There is not sufficient money remaining in the proper account for that purpose, and I respectfully request that the Board of Estimate and Apportionment make a further appropriation out of the water revenue of that Borough of $8,500. The principal items making up this amount are as follows:

33 Bookkeepers desks, at $125 (steel)	$4,125 00
24 10-drawer steel letter files for the filing of historical cards, at $60 (steel)	1,440 00
8 flat top desks, at $58 (steel)	464 00
4 special filing cabinets for Meter Setting Division, at $300 (steel)	1,200 00
1 Burroughs adding machine, 15 bank, at	668 12
Wire screening, railing and counter, estimated	400 00

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 15, 1911, the Commissioner of Water Supply, Gas and Electricity requested a further appropriation of $8,500 from the water revenues received in the Borough of Brooklyn to provide for the equipment of additional quarters allotted to the Water Registrar in the Borough. In connection therewith I report as follows:

The rooms in the Municipal Building formerly occupied by the Coroner's office have been assigned to the Water Registrar and it is proposed to install the Frontage Rate Division in them.

To equip their quarters with modern steel office furniture similar to that in the other divisions of the Bureau, and to provide for filing cabinets for the Meter Setting Division, the following items are stated to be necessary:

33 steel Bookkeepers' desks, at $125	$4,125 00
24 10-drawer steel letter files, for filing historical cards, at $60	1,440 00
8 steel flat-top desks, at $58	464 00
4 special steel filing cabinets for Meter Setting Division, at $300	1,200 00
1 Borroughs adding machine, 15-bank	668 12
Wire screening, railing and counter	400 00
	$8,297 12

Minor items are estimated to give the total of $8,500, requested.

The Board of Estimate and Apportionment has appropriated funds for the equipment of the remaining divisions of the Bureau and provision for similar equipment for the new quarters appears to be needed.

On July 13, 1911, $400 was appropriated for the purchase of furniture and fittings for the Water Registrar's Bureau. The sum was not taken into consideration at the time of the Commissioner's request.

I recommend, therefore, the adoption of the attached resolution granting the request to the extent of $8,100. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to the provisions of subdivision 1 of section 242 of the Greater New York Charter, the Board of Estimate and Apportionment hereby determines that the additional sum of eight thousand one hundred dollars ($8,100) be and hereby is set aside and appropriated from the water revenues received in the Borough of Brooklyn, during the year 1911, for the use of the Department of Water Supply, Gas and Electricity in the maintenance and distribution of the water supply of the Borough of Brooklyn, during the year 1911; said appropriation to be used to replenish the account entitled S-221, Maintenance and Distribution of Water Supply in the Borough of Brooklyn, 1911, Administration, Purchase of Furniture and Fittings, Bureau of Water Registrar.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen,

the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Acting President of the Borough of Manhattan requesting, and report of the Comptroller recommending, a modification of two wage schedules (Nos. 1694 and 1702), involving a transfer of $1,200, in the office of the President of the Borough for the year 1911, to provide for increasing salary of eight Male Attendants from $900 to $1,050 per annum, and for the employment of an additional Male Attendant at $1,050, and an additional Female Attendant at $720 per annum:

City of New York, Office of the President of the Borough of Manhattan, City Hall, July 24, 1911.

Joseph Haag, *Secretary, Board of Estimate and Apportionment*, 277 Broadway, New York City:

Dear Sir—Request is hereby made that the supporting schedules, attached to the Budget of the President of the Borough of Manhattan for the year 1911, be amended so as to read as follows:

Bureau of Public Buildings and Offices, Maintenance of Public Buildings and Offices.

1694. Wages Regular Employees:

Janitor	$1,500 00
Janitors, 9 at $1,200	10,800 00
Janitors, 2 at $1,050	2,100 00
Janitors, 2 at $900	1,800 00
Inspector	1,500 00
Inspector	1,200 00
Watchmen, 4 at $900	3,600 00
Attendant	1,050 00
Attendants, 3 at $720	2,160 00
Cleaners (female), 186 at $360	66,960 00
Engineer, 1 at $6 (365 days)	2,190 00
Engineers, 2 at $5 (365 days)	3,650 00
Engineers, 12 at $4.50 (365 days)	19,710 00
Firemen, 35 at $3 (365 days)	28,325 00
Oilers, 4 at $3 (312 days)	3,744 00
Foremen, 2 at $1,200	2,400 00
Foremen Elevatormen, 2 at $3 (312 days)	1,872 00
Foreman, 1 at $5 (312 days)	1,560 00
Assistant Foreman, 1 at $4 (365 days)	1,460 00
Assistant Foremen, 2 at $3 (312 days)	1,872 00
Assistant Foreman, 1 at $3.50 (312 days)	1,092 00
Assistant Foremen, 2 at $2.50 (312 days)	1,560 00
Elevatormen, 24 at $900	21,600 00
Laborers, 8 at $3 (312 days)	7,488 00
Laborers, 15 at $2.50 (365 days)	$13,687 50
Laborers, 83 at $2.50 (312 days)	64,740 00
	$279,620 50

Public Baths and Comfort Stations.

1702. Wages, Regular Employees:

Engineers, 25 at $4.50 per diem (365 days)	$41,062 50
Attendant (male), 1 at $1,200	1,200 00
Attendants (male), 24 at $1,050	25,200 00
Attendants (female), 73 at $900	65,700 00
Attendants (female), 90 at $720	64,800 00
Firemen, 36 at $3 per diem (365 days)	39,420 00
Unassigned	117 50
	$237,500 00

Under Code No. 1694 the number of Cleaners is reduced from 194 to 186.

Under Code No. 1702 the number of Attendants at $1,050 is increased by nine, and the number of Attendants at $900 is decreased by eight. The number of Female Attendants at $720 is increased by one.

In this change the salary of nine Attendants is increased from $900 to $1,050 per annum.

Arrangements have been made for this modification to take effect August 1, 1911. It is requested that a clause to that effect be inserted in the resolution. There is also enclosed a form for the necessary transfer of funds. Very truly yours,

E. V. FROTHINGHAM, Acting President of the Borough of Manhattan.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 24, 1911, the President of the Borough of Manhattan requested modification of two wage schedules for regular employees, involving a transfer of $1,200 in his office for the year 1911. In connection therewith, I report as follows:

The request is in the Bureau of Public Buildings and Offices, Maintenance of Public Buildings and Offices, No. 1694, and Public Baths and Comfort Stations, No. 1702.

The changes call for increases in the salaries of eight Male Attendants, from $900 to $1,050 per annum, for an additional Male Attendant at $1,050, and an additional Female Attendant at $720. The amount necessary is to be obtained by dropping eight Female Cleaners at $360. The net decrease of $90 is to be carried as an unassigned balance.

The modification is to be effective as of August 1, 1911.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
1694.	Cleaners, 194 at $360	....	$2,880 00	....	$1,200 00
1702.	Attendants, 15 at $1,050	$9,450 00	....	$3,937 50	....
	Attendants (Male), 81 at $900	....	7,200 00	....	3,000 00
	Attendants (Female), 89 at $720	720 00	....	300 00	....
	Unassigned	....	90 00	....	37 50
		$10,170 00	$10,170 00	$4,237 50	$4,237 50

The attached resolutions, if adopted, grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Manhattan for the year 1911, to take effect August 1, 1911, as follows:

President, Borough of Manhattan.

Bureau of Public Buildings and Offices, Maintenance of Public Buildings and Offices—

1694. Wages, Regular Employees:

Janitor	$1,500 00
Janitors, 9 at $1,200	10,800 00
Janitors, 2 at $1,050	2,100 00
Janitors, 2 at $900	1,800 00
Inspector	1,500 00
Inspector	1,200 00
Watchmen, 4 at $900	3,600 00
Attendant	1,050 00
Attendants, 3 at $720	2,160 00
Cleaners (female), 186 at $360	66,960 00
Engineer, 1 at $6 (365 days)	2,190 00
Engineers, 2 at $5 (365 days)	3,650 00
Engineers, 12 at $4.50 (365 days)	19,710 00
Firemen, 35 at $3 (365 days)	38,325 00
Oilers, 4 at $3 (312 days)	3,744 00
Foremen, 2 at $1,200	2,400 00

Foremen Elevatormen, 2 at $3 (312 days)	1,872 00
Foreman, 1 at $5 (312 days)	1,560 00
Assistant Foreman, 1 at $4 (365 days)	1,460 00
Assistant Foremen, 2 at $3 (312 days)	1,872 00
Assistant Foreman, 1 at $3.50 (312 days)	1,092 00
Assistant Foremen, 2 at $2.50 (312 days)	1,560 00
Elevatormen, 24 at $900	21,600 00
Laborers, 8 at $3 (312 days)	7,488 00
Laborers, 15 at $2.50 (365 days)	13,687 50
Laborers, 83 at $2.50 (312 days)	64,740 00
	$279,620 50

Public Baths and Comfort Stations—

1702. Wages, Regular Employees:

Engineers, 25 at $4.50 per diem (365 days)	$41,062 50
Attendant (male), 1 at $1,200	1,200 00
Attendants (male), 24 at $1,050	25,200 00
Attendants (male), 73 at $900	65,700 00
Attendants (female), 90 at $720	64,800 00
Firemen, 36 at $3 per diem (365 days)	39,420 00
Unassigned	117 50
	$237,500 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the office of the President of the Borough of Manhattan for the year 1911, as follows:

From

President, Borough of Manhattan, Bureau of Public Buildings and Offices, Maintenance of Public Buildings and Offices—

1694. Wages, regular employees $1,200 00

To

President, Borough of Manhattan, Bureau of Public Buildings and Offices, Public Baths and Comfort Stations—

1702. Wages, regular employees $1,200 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the President of the Borough of Richmond in the matter of and report of the Corporate Stock Budget Committee recommending that the Corporation Counsel be requested to begin proceedings to acquire by condemnation the easement in the land traversed by the sewer from the Sea View Hospital, Borough of Richmond:

The City of New York, Office of the President of the Borough of Richmond, Bureau of Engineering Construction, Borough Hall, New Brighton, New York City, July 5, 1911.

Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—At the meeting of the Board held on February 9, 1911, a communication from me requesting an issue of corporate stock to the amount of $1,500 to be used for the acquisition of an easement in land traversed by the sewer from the Sea View Hospital, was referred to the Corporate Stock Budget Committee, and an opinion of the Corporation Counsel was attached thereto, which stated that he believed the

Comptroller should purchase this land at private sale. Mr. O'Malley of the Real Estate Division of the Department of Finance states that he has found it impossible to purchase this land at private sale at a reasonable figure, and that it is necessary that a condemnation commission be appointed.

We, therefore, request that previous action taken in this matter be rescinded, and that the Corporation Counsel be requested to proceed with the application for the appointment of Commissioners of Estimate and Assessment for the condemning of this easement. We also request that the date for the vesting of title of this easement be determined to be that on which the Commissioners file their oaths of office as there are no buildings on the property, and as early acquirement of title in this easement is urgently needed, so that the sewer for the Sea View Hospital can be constructed and put into operation at the earliest possible date.

Yours very truly,

GEORGE CROMWELL, President of the Borough, by Louis L. Tribus, Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On February 9, 1911, the Board of Estimate and Apportionment referred to the Corporate Stock Budget Committee a communication from the President of the Borough of Richmond requesting $1,500 in Corporate Stock, to be used for the acquisition of an easement in land traversed by the sewer from the Sea View Hospital. On July 5, 1911, the President requested that the previous action be rescinded and that the Corporation Counsel be requested to proceed with an application for the appointment of Commissioners of Estimate and Assessment for the condemning of the easement. In connection therewith we report, as follows:

An item in the 1911 Corporate Stock Budget provides $2,500 for the easement. At the time the original request was made the President of the Borough was of the opinion that the easement could be acquired by private purchase, and that the cost would be about $1,500. An investigation by the Bureau of Real Estate of the Department of Finance developed the fact that there were many owners in the line of the proposed easement, and that, owing to the insignificant individual damage or values, that it would be more economical and practical if the City brought a proceeding and condemned the land required for the sewer. It was estimated that the cost would approximate $2,500, and your Committee recommended an authorization accordingly.

We recommend, therefore, that the Corporation Counsel be requested to begin proceedings to acquire the easement by condemnation procedings. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That the Corporation Counsel be and he is hereby requested to begin proceedings to acquire by condemnation the easement in land traversed by the sewer from the Sea View Hospital, Borough of Richmond, as requested in a communication from the President, Borough of Richmond, dated July 5, 1911.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Acting President of the Borough of Manhattan requesting, and report of the Comptroller relative to the modification of salary schedules Nos. 1653, 1658, 1682 and 1689, supporting the appropriation made in the Budget for the year 1911 for the office of the President of the Borough of Manhattan, providing for increases in the salaries of certain positions, the addition of new positions, and the elimination of other positions, involving the transfer of $1,666.66:

City of New York, Office of the President of the Borough of Manhattan, City Hall, July 22, 1911.

Joseph Haag, Esq., *Secretary of Board of Estimate and Apportionment,* 277 Broadway, New York City:

Dear Sir—Request is hereby made that the supporting schedule of salaries, attached to the Budget of the President of the Borough of Manhattan for the year 1911, be amended so as to read as follows:

General Administration—

1653. Salaries:

Borough President	$7,500 00
Commissioner of Public Works	7,200 00
Assistant Commissioner of Public Works	6,000 00
Consulting Engineer	7,200 00
Secretary of the Borough	5,000 00
Secretary to the President	4,000 00
Auditor	4,000 00
Secretary to the Commissioner of Public Works	3,300 00
Bookkeeper	2,550 00
Clerk	2,700 00
Clerks, 2 at $2,400	4,800 00
Clerks, 3 at $2,100	6,300 00
Clerk	1,950 00
Clerks, 2 at $1,800	3,600 00
Clerks, 4 at $1,650	6,600 00
Clerks, 4 at $1,500	6,000 00
Clerk	1,350 00
Clerk	1,200 00
Clerk	1,050 00
Clerks, 5 at $900	4,500 00
Stenographer and Typewriter to Borough President	2,100 00
Stenographer and Typewriter	1,650 00
Stenographers and Typewriters, 3 at $1,500	4,500 00
Stenographers and Typewriters, 4 at $1,200	4,800 00
Stenographers and Typewriters, 5 at $1,050	5,250 00
Typewriting Copyist	720 00
Messenger	1,500 00
Messenger	$1,050 00
Messengers, 2 at $900	1,800 00
Custodian	900 00
Assistant Custodian	720 00
Automobile Engineman	1,500 00
Automobile Engineman	1,200 00
Inspector of Repairs and Supplies	1,500 00
Inspector of Repairs and Supplies	1,200 00
Assistant Chemist	1,350 00
Assistant Engineer	3,000 00
Assistant Engineer	2,250 00
Assistant Engineer	2,100 00
Confidential Inspector	1,800 00
Telephone Operator	1,050 00
Attendant	1,200 00
Attendant	1,050 00
Attendants, 2 at $900	1,800 00
	$132,790 00

Bureau of Highways—

1658. Salaries:

Clerk	$2,700 00
Clerk	2,350 00
Clerk	1,800 00
Clerks, 4 at $1,500	6,000 00
Clerks, 2 at $1,200	2,400 00
Clerks, 2 at $1,050	2,100 00
Clerks, 2 at $900	1,800 00
Clerks, 2 at $480	960 00
Stenographer and Typewriter	1,200 00
Inspector of Vaults, 3 at $1,500	4,500 00
Inspector	1,800 00
Foreman	1,200 00
Messenger	1,500 00
Messengers, 5 at $1,200	6,000 00

Messenger	1,050 00
Automobile Enginemen, 2 at $1,200	2,400 00
Attendant	1,050 00
Attendant	900 00
Unassigned	140 00
	$41,850 00

Bureau of Sewers, Administration—

1682. Salaries:

Chief Engineer	$6,000 00
Engineer	4,000 00
Secretary	2,850 00
Clerk	2,400 00
Clerk	1,800 00
Messenger	1,500 00
Messenger	1,050 00
General Inspector	3,000 00
Inspector of Connections, 5 at $1,200	6,000 00
Inspector of Masonry	2,100 00
Automobile Enginemen, 2 at $1,200	2,400 00
	$33,100 00

Bureau of Public Buildings and Offices, Administration—

1689. Salaries:

Superintendent	$5,000 00
Assistant Engineer	3,500 00
Assistant Engineer	2,550 00
Assistant Engineers, 2 at $1,800	3,600 00
Clerk	1,650 00
Clerk	1,350 00
Mechanical Engineer	2,550 00
Mechanical Engineer	2,100 00
Structural Steel Draftsmen, 2 at $1,800	3,600 00
Mechanical Draftsman	1,800 00
Architectural Draftsman	1,800 00
Clerk	1,200 00
Clerk	900 00
Stenographer and Typewriter	1,200 00
Storekeeper	1,800 00
Automobile Engineman	1,200 00
Attendant	1,050 00
Unassigned	220 00
	$37,070 00

The changes made in the foregoing schedules are the following:

Under Code No. 1653 the number of Clerks at $1,650 per annum is increased by one. The number of Clerks at $1,500 is reduced by three. An Attendant at $1,200 is added. A Stenographer at $1,800 is eliminated.

These changes are to provide increases in salary from $1,500 to $1,650 for two Clerks, and from $1,050 to $1,200 for one Attendant.

Under Code No. 1658 the number of Clerks at $1,050 is reduced by one. A Clerk is added. An Attendant at $1,050 is added. An Attendant at $900 is eliminated.

By this change it is intended to increase one Attendant from $900 to $1,050 per annum.

Under Code No. 1682 the only change made in this schedule is the addition of an Engineer at $4,000 per annum. This is a new position.

Under Code No. 1689—An Assistant Engineer at $3,500 is substituted for one at $3,000. The number of Assistant Engineers at $1,800 is reduced from three to two. A Mechanical Engineer at $2,100 is substituted for one at $1,800. An Architectural Draftsman at $1,800 is substituted for one at $1,500. A Clerk at $720 is eliminated. A Stenographer and Typewriter at $1,200 is added.

It is intended by this change to increase the salary of an Assistant Engineer from $3,000 to $3,500; a Mechanical Engineer from $1,800 to $2,100, and an Architectural Draftsman from $1,500 to $1,800.

Arrangements have been made to make these salary changes effective August 1, 1911, and it is accordingly requested that the modifications be made effective as of that date. There is also enclosed a form for the necessary transfer of funds.

Very truly yours,

E. V. FROTHINGHAM, Acting President of the Borough of Manhattan.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 22, 1911, the President of the Borough of Manhattan requested modification of four salary schedules, involving a transfer of $1,666.66, in his office for the year 1911. In connection therewith I report as follows:

The request is in General Administration, No. 1653; Bureau of Highways, Administration, No. 1658; Bureau of Sewers, Administration, No. 1682, and Bureau of Public Buildings and Offices, Administration, No. 1689.

The changes call for increased compensation for one Clerk, from $1,500 to $1,650 per annum; for an Attendant, from $1,050 to $1,200, and one from $900 to $1,050; for an Assistant Engineer, from $3,000 to $3,500; a mechanical Engineer, from $1,800 to $2,100, and an Architectural Draftsman, from $1,500 to $1,800.

It is also proposed to add an Engineer, at $4,000 per annum, for new work in the Bureau of Sewers; a Stenographer and Typewriter, at $1,200, and a Clerk, at $480 per annum.

The funds necessary for the changes are to be provided by dropping two Clerks, at $1,500 per annum each; a Stenographer, at $1,800, and a Clerk, at $1,050, and by transfer from unassigned balances.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1653.	Clerks, 7 at $1,500	....	$3,000 00	....	$1,250 00
	Stenographer, 1 at $1,800	....	1,800 00	....	750 00
	Attendant, 1 at $1,200	$1,200 00	....	$500 00	....
1658.	Clerks, 3 at $1,050	....	1,050 00	....	437 50
	Attendant, 1 at $1,050	1,050 00	....	437 50	....
	Attendants, 2 at $900	....	900 00	....	375 00
	Clerk, 1 at $480	480 00	....	200 00	....
	Unassigned balance, $120	20 00	....	8 33	....
1689.	Assistant Engineer, 1 at $3,000	....	3,000 00	....	1,250 00
	Assistant Engineer, 1 at $3,500	3,500 00	....	1,458 33	....
	Assistant Engineers, 3 at $1,800	....	1,800 00	....	750 00
	Mechanical Engineer, 1 at $1,800	....	1,800 00	....	750 00
	Mechanical Engineer, 1 at $2,100	$2,100 00	....	875 00	....
	Architectural Draftsman, 1 at $1,500	....	1,500 00	....	625 00
	Architectural Draftsman, 1 at $1,800	1,800 00	....	750 00	....
	Clerk, 1 at $720	....	720 00	....	300 00
	Stenographer and Typewriter, 1 at $1,200	1,200 00	....	500 00	....
	Unassigned balance	220 00	....	91 67	....
1682.	Engineer, 1 at $4,000	4,000 00	....	1,666 67	....
		$15,570 00	$15,570 00	$6,487 50	$6,487 50

The attached resolutions, if adopted, will grant the request. Respectfuly,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Manhattan, for the year 1911, to take effect August 1, 1911, as follows:

President, Borough of Manhattan.

General Administration—

1653. Salaries:

Borough President	$7,500 00
Commissioner of Public Works	7,200 00
Assistant Commissioner of Public Works	6,000 00
Consulting Engineer	7,200 00
Secretary of the Borough	5,000 00
Secretary to the President	4,000 00
Auditor	4,000 00
Secretary to the Commissioner of Public Works	3,300 00
Bookkeeper	2,550 00
Clerk	2,700 00
Clerks, 2 at $2,400	4,800 00
Clerks, 3 at $2,100	6,300 00
Clerk	1,950 00
Clerks, 2 at $1,800	3,600 00
Clerks, 3 at $1,650	4,950 00
Clerks, 5 at $1,500	7,500 00
Clerk	1,350 00
Clerk	1,200 00
Clerk	1,050 00
Clerks, 5 at $900	4,500 00
Stenographer and Typewriter to Borough President	2,100 00
Stenographer and Typewriter	1,650 00
Stenographers and Typewriters, 3 at $1,500	4,500 00
Stenographers and Typewriters, 4 at $1,200	4,800 00
Stenographers and Typewriters, 5 at $1,050	5,250 00
Typewriting Copyist	720 00
Messenger	1,500 00
Messenger	1,050 00
Messengers, 2 at $900	1,800 00
Custodian	900 00
Assistant Custodian	720 00
Automobile Engineman	1,500 00
Automobile Engineman	1,200 00
Inspector of Repairs and Supplies	1,500 00
Inspectors of Repairs and Supplies	1,200 00
Assistant Chemist	1,350 00
Assistant Engineer	3,000 00
Assistant Engineer	2,250 00
Assistant Engineer	2,100 00
Confidential Inspector	1,800 00
Telephone Operator	1,050 00
Attendant	1,200 00
Attendant	1,050 00
Attendants, 2 at $900	1,800 00
Unassigned balance	150 00
	$132,790 00

Bureau of Highways, Administration—

1658. Salaries:

Clerk	$2,700 00
Clerk	2,350 00
Clerk	1,800 00
Clerks, 4 at $1,500	6,000 00
Clerks, 2 at $1,200	2,400 00
Clerks, 2 at $1,050	2,100 00
Clerks, 2 at $900	1,800 00
Clerks, 2 at $480	960 00
Stenographer and Typewriter	1,200 00
Inspector of Vaults, 3 at $1,500	4,500 00
Inspector	1,800 00
Foreman	1,200 00
Messenger	1,500 00
Messengers, 5 at $1,200	6,000 00
Messenger	1,050 00

Automobile Enginemen, 2 at $1,200	2,400 00
Attendant	1,050 00
Attendant	900 00
Unassigned balance	140 00
	$41,850 00

Bureau of Sewers, Administration—
1682. Salaries:

Chief Engineer	$6,000 00
Engineer	4,000 00
Secretary	2,850 00
Clerk	2,400 00
Clerk	1,800 00
Messenger	1,500 00
Messenger	1,050 00
General Inspector	3,000 00
Inspectors of Connections, 5 at $1,200	6,000 00
Inspector of Masonry	2,100 00
Automobile Enginemen, 2 at $1,200	2,400 00
	$33,100 00

Bureau of Public Buildings and Offices, Administration—
1689. Salaries:

Superintendent	$5,000 00
Assistant Engineer	3,500 00
Assistant Engineer	2,550 00
Assistant Engineers, 2 at $1,800	3,600 00
Clerk	1,650 00
Clerk	1,350 00
Mechanical Engineer	2,550 00
Mechanical Engineer	2,100 00
Structural Steel Draughtsmen, 2 at $1,800	3,600 00
Mechanical Draughtsman	1,800 00
Architectural Draughtsman	1,800 00
Clerk	1,200 00
Clerk	900 00
Stenographer and Typewriter	1,200 00
Storekeeper	1,800 00
Automobile Engineman	1,200 00
Attendant	1,050 00
Unassigned balance	220 00
	$37,070 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

—

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfer of funds appropriated for the office of the President of the Borough of Manhattan, for the year 1911, as follows:

From

President, Borough of Manhattan.

General Administration—	
1653. Salaries	$1,500 00
Bureau of Highways, Administration—	
1658. Salaries	166 66

To

President, Borough of Manhattan.

Bureau of Sewers, Administration—	
1682. Salaries	$1,666 66

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen,

the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communications from the President of the Borough of Richmond requesting, and report of the Comptroller relative to, modification of the non-budgetary schedule of salaries and wages, for the Topographical Bureau in the office of said Borough President to include every employee in the Bureau at the present rate of compensation:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, June 29, 1911.

Honorable Board of Estimate and Apportionment, 277 Broadway, New York:

Gentlemen—I would request a modification of the Schedule of Salaries and Wages of the Topographical Bureau of this office (payable from Corporate Stock Fund entitled "C-PR-2, Fund for Topographical Bureau of the Borough of Richmond"), as herein set forth.

I would further particularly request that in the resolution adopting this schedule there be inserted a provision to the effect that in respect of those lines of the schedule where increases in salary or promotions are shown over those now in force that these lines be construed to cover the incumbents of the positions in question at their present salaries until the increases in salaries to the amount shown in the schedule herein proposed have been made. This request is made in order that there may be no obstacle to the passing of our payrolls in the Department of Finance pending the increases in salaries and promotions referred to.

The schedule proposed is as follows:

Principal Assistant Engineer	1 at	$3,600 00
Assistant Engineer	1 at	2,700 00
Assistant Engineers	4 at	2,400 00
Assistant Engineers	2 at	2,250 00
Assistant Engineers	4 at	2,000 00
Assistant Engineers	3 at	1,800 00
Assistant Engineers	3 at	1,650 00
Assistant Engineers	2 at	1,500 00
Assistant Engineer	1 at	1,350 00
Assistant Engineer	1 at	1,200 00
Chief Draftsman	1 at	2,000 00
Topographical Draftsman	1 at	2,000 00
Topographical Draftsmen	3 at	1,800 00
Topographical Draftsmen	2 at	1,650 00
Topographical Draftsman	1 at	1,500 00
Topographical Draftsmen	8 at	1,350 00
Topographical Draftsmen	3 at	1,200 00
Transitman and Computer	1 at	1,800 00
Transitmen and Computers	3 at	1,650 00
Transitmen and Computers	2 at	1,500 00
Transitmen and Computers	4 at	1,350 00
Transitmen and Computers	7 at	1,200 00
Leveler	1 at	1,500 00
Rodmen	5 at	1,200 00
Rodman	1 at	1,050 00
Rodmen	3 at	900 00
Axemen	9 at	900 00
Foremen	4 at	1,200 00
Drivers	3 at	900 00
Laborers	17 at	900 00
Stenographer and Typewriter	1 at	1,650 00
Clerk	1 at	1,350 00

This schedule is the same as that adopted by your Board on June 1, with the following exceptions:

1. The following lines were omitted from said schedule of June 1 for the reason that the positions had not been established according to section 56 of the Charter, but as they have now been established we believe there will be no objection to incorporating them in the proposed schedule, viz.:

Topographical Draftsman	1 at	$2,000 00
Topographical Draftsmen	8 at	1,350 00

Stenographer and Typewriter	1 at	1,650 00
Clerk	1 at	1,350 00

2. The line Rodmen, 4 at $1,200, has been increased to Rodmen, 5 at $1,200, and the line Rodmen, 2 at $1,050, has been decreased to 1 at $1,050, an increase of $150 in these two lines.

3. The line 1 Messenger at $900 has been eliminated for the reason that there is no further need for this position, a decrease of $900.

As practically all the increases in salary, promotions, etc., have been considered by the Corporate Stock Budget Committee in connection with our request for corporate stock and have been favorably reported upon by the Committee, I believe there is no objection to the adoption of the schedule requested.

I would request that the schedule be put into effect as of July 1, 1910.

Respectfully yours, GEORGE CROMWELL, President of the Borough.

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, July 24, 1911.

Hon. W. A. Prendergast, *Comptroller:*

Dear Sir—John D. Kohlmann, Jr., Laborer, has been on leave of absence for one year and we desire to reinstate him as an Axeman, his name being on the promotion list for this position. We would, therefore, ask that our schedule for the present year be made to read, 10 Axemen at $900 instead of 9 Axemen at $900, so that Mr. Kohlmann may be reinstated, such reinstatement to be in the Bureau of Topography of this office. Yours respectfully,

GEORGE CROMWELL, President of the Borough.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 29, 1911, the President of the Borough of Richmond requested modification of the non-budgetary schedule for the Topographical Bureau under his jurisdiction. In connection therewith I report as follows:

The following table shows the proposed line item changes in detail:

	Line transfer.	
	Increase.	Decrease.
Assistant Engineer, 1 at $2,700	$2,700 00	....
Assistant Engineer, 1 at $2,400	7,200 00	....
Assistant Engineers, 6 at $2,250	....	$9,000 00
Assistant Engineers, 3 at $1,800	1,800 00	....
Assistant Engineers, 4 at $1,650	....	1,650 00
Topographical Draftsman, at $2,000	2,000 00	....
Topographical Draftsman, 4 at $1,800	....	1,800 00
Topographical Draftsman, 1 at $1,650	1,650 00	....
Topographical Draftsman, 4 at $1,200	....	1,200 00
Transitman and Computer, 4 at $1,650	....	1,650 00
Transitman and Computer, 2 at $1,500	3,000 00	....
Transitman and Computer, 5 at $1,350	....	1.350 00
Transitman and Computer, 5 at $1,200	2,400 00	....
Rodmen, 2 at $1,200	3,600 00	....
Rodmen, 7 at $1,050	....	6,300 00
Axemen, 9 at $900	900 00	....
Foreman, 1 at $1,200	3,600 00	....
Foremen, 3 at $1,050	....	3,150 00
Messenger, 1 at $900	....	900 00
Stenographer and Typewriter, 1 at $1,650	1,650 00	....
Stenographer and Typewriter, 1 at $1,500	....	1,500 00
Clerk, at $1,350	1,350 00	....
Clerk, 1 at $1,200	....	1,200 00
Clerk, 1 at $1,050	....	1.050 00
	$31,850 00	$30,750 00

The President states that the various changes were considered by the Corporate Stock Budget Committee, and were favorably reported on by the Committee in recommending the appropriation for the Bureau in the 1911 Corporate Stock Budget.

In his request the President states the following:

"I would further particularly request that in the resolution adopting this schedule there be inserted a provision to the effect that in respect of those lines of the schedule where increases in salary or promotions are shown over those now in force that these lines be construed to cover the incumbents of the positions in question at their present salaries until the increases in salaries to the amount shown in the schedule herein proposed have been made. This request is made in order that there may be no obstacle to the passing of our payrolls in the Department of Finance pending the increases in salaries and promotions referred to."

For purposes of audit it is essential that an accurate schedule of employees and their existing rates of compensation should be in force for the months in which they have performed service. The suggestion of the President would not make this condition possible, and for that reason I recommend that this part of the request be not approved.

As a substitute, however, I recommend that the schedule of salaries and wages be adopted representing the actual pay-roll condition, and that the difference between the annual pay-roll cost and the $143,350 allowed for salaries and wages in the 1911 Corporate Stock Budget be added to the schedule as an "unallotted balance."

The attached resolution, if adopted, will include every employee in the bureau at the present rate of compensation. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the non-budgetary schedule, as revised, for the Topographical Bureau in the office of the President of the Borough of Richmond, as follows:

President, Borough of Richmond.

Topographical Force—

Salaries:

Principal Assistant Engineer, 1 at	$3,600 00
Assistant Engineer, 1 at	2,700 00
Assistant Engineer, 4 at	2,400 00
Assistant Engineer, 2 at	2,250 00
Assistant Engineer, 4 at	2,000 00
Assistant Engineer, 3 at	1,800 00
Assistant Engineer, 3 at	1,650 00
Assistant Engineer, 2 at	1,500 00
Assistant Engineer, 1 at	1,350 00
Assistant Engineer, 1 at	1,200 00
Chief Draftsman, 1 at	2,000 00
Topographical Draftsman, 1 at	2,000 00
Topographical Draftsman, 3 at	1,800 00
Topographical Draftsman, 2 at	1,650 00
Topographical Draftsman, 1 at	1,500 00
Topographical Draftsman, 8 at	1,350 00
Topographical Draftsman, 3 at	1,200 00
Transitman and Computer, 1 at	1,800 00
Transitman and Computer, 3 at	1,650 00
Transitman and Computer, 2 at	1,500 00
Transitman and Computer, 4 at	1,350 00
Transitman and Computer, 7 at	1,200 00
Leveler, 1 at	1,500 00
Rodman, 5 at	1,200 00
Rodman, 1 at	1,050 00
Rodman, 3 at	900 00
Axeman, 10 at	900 00
Foreman, 4 at	1,200 00
Drivers, 3 at	900 00
Laborers, 17 at	900 00
Stenographer and Typewriter, 1 at	1,650 00
Clerk, 1 at	1,350 00
Unallotted Balance	850 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs

of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Parks, Boroughs of Manhattan and Richmond requesting, and report of the Comptroller recommending approval, of plans, specifications and estimate of cost ($22,000) for furnishing and laying cork tile floors in the Metropolitan Museum of Art, Central Park, providing the specifications be amended to provide that 2 per cent. of the amount of the contract be retained for one year from the date of the acceptance of the work:

The City of New York, Department of Parks, Arsenal, Central Park, July 8, 1911.

Hon. William A. Prendergast, *Comptroller,* City of New York:

Sir—Herewith I beg to forward to you, as required by resolution of the Board of Estimate and Apportionment, for the approval of said Board, plan and specifications for furnishing and laying cork tile floors in the Metropolitan Museum of Art, Central Park.

The cost of this work is approximately estimated at $22,000, which will be chargeable against the fund provided by corporate stock issue known as C-DP-63.

Respectfully,

CHAS. B. STOVER, Commissioner of Parks, Boroughs of Manhattan and Richmond.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 22, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 8, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested approval of plans, specifications and estimate of cost in the sum of $22,000 for furnishing and laying cork tile floors in the Metropolitan Museum of Art, Central Park.

The cork tile floors are to replace wooden floors, laid on the second floor of buildings A, B and C when the buildings were constructed eighteen or twenty years ago. The new floors are to be similar to those in the New York Public Library, Forty-second street and Fifth avenue. They are noiseless, sanitary and can be easily cleaned, and have proved very durable where used.

The removal of the wooden floors also is desired in order to minimize as much as possible the danger from fire. The cork tiling, which is only half an inch in thickness, is laid on a concrete foundation.

The plan and specifications are satisfactory, excepting that the specifications, in my opinion, should provide for the retention of a sum sufficient to insure the maintenance of the work in good condition for a period of at least one year. For this purpose I recommend that the specifications be amended to provide that 2 per cent. of the amount of the contract be retained for one year from the date of the acceptance of the work. The cost of the tile floor is to be charged to the Corporate Stock Fund, entitled "C-DP-63, Metropolitan Museum of Art, in Central Park, constructing and completing extensions, etc."

I recommend the adoption of the attached resolution, granting the request, with the exception noted. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the plans, specifications and the estimate of cost to the amount of twenty-two thousand dollars ($22,000), for furnishing and laying cork tile floors for picture galleries in the Metropolitan Museum of Art, Central Park, Manhattan, provided that there be included in the specifications and contract by the Commissioner of Parks, Boroughs of Manhattan and Richmond, provisions that the contractor shall guarantee and maintain the stability of all work and materials and keep the same in repair for a period of one year after the date of completion and acceptance of the work, and that two (2) per cent. of the contract price shall be retained for the said period of one year after completion and acceptance in order to insure the carrying out of the guarantee, and that a provision shall be included in the contract that in the event of failure on the part of the contractor to make repairs when duly notified to do so, the Commissioner of Parks, Boroughs of Manhattan and Richmond, shall have the right to undertake and complete the repairs and to charge the expense thereof against any sum of money retained by the City, or to the contractor and his sureties.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller relative to a modification of the budgetary part schedule entitled "Water Supply, Boroughs of Manhattan and The Bronx, Distribution, Maintenance of Croton and Bronx Systems, No. 506, Wages, Regular Employees, Maintenance and Construction Force," providing for increase of one Inspector and one Foreman from $4 to $5 per diem, etc.:

Department of Water Supply, Gas and Electricity, Bureau of Supplies, Room 1904, 13-21 Park Row, City of New York, July 15, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—I respectfully request that you recommend to the Board of Estimate and Apportionment a modification of the salary schedule supporting the budgetary part allowance appropriation entitled, "Water Supply, Boroughs of Manhattan and The Bronx, Distribution, Maintenance of Croton and Bronx Systems, 506, Wages, Regular Employees, Maintenance and Construction Force," so that by the elimination of two positions I may promote one Inspector and one Foreman one dollar per day each to make their salaries uniform with the others holding the same positions and doing the same class of work. The schedule so modified is attached.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 15, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the budgetary part schedule, entitled Water Supply, Boroughs of Manhattan and The Bronx; Distribution, Maintenance of Croton and Bronx Systems, No. 506, Wages, Regular Employees, Maintenance and Construction Force. In connection therewith I report, as follows:

It is proposed to increase one Inspector and one Foreman from $4 to $5 per diem, each, and schedule both as Foremen. The increase of $730 is to be provided by striking out two Foreman Inspectors, at $4, for 365 days, each, the balance of $2,190 to be dropped from the schedule.

The Commissioner states that the increases are for the equalization of the compensation for Foremen and Inspectors.

The following table shows the schedule changes in detail:

	Schedule Transfer.	
	Decrease.	Increase.
506. Foremen, 14, at $5 per diem (365 days)	....	$1,825 00
Foreman Inspectors, 2 at $4 per diem (365 days)	$2,920 00	
Foremen, 2 at $4 per diem (365 days)	2,920 00	
Inspector, 1 at $5 per diem (365 days)	....	1,825 00
	$5,840 00	$3,650 00

The attached resolution, if adopted, will grant the request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity, for the year 1911, as follows:

Department of Water Supply, Gas and Electricity.

Water Supply, Boroughs of Manhattan and The Bronx; Distribution, Maintenance of Croton and Bronx Systems; Maintenance and Construction Force—

506. Wages, Regular Employees:	
Foremen, 16 at, per day (365 days)	$5 00
Inspectors, 2 at, per day (365 days)	5 00

Assistant Foremen, 19 at, per day (303 days)	$3 00
Machinist, 1 at, per day (303 days)	4 50
Machinist Helpers, 2 at, per day (303 days)	3 00
Blacksmith, 1 at, per day (303 days)	4 50
Blacksmith Helper, 1 at, per day (303 days)	3 00
Caulkers, 67 at, per day (303 days)	4 00
Tappers, 9 at, per day (303 days)	4 00
Flagger, 1 at, per day (303 days)	4 50
Toolmen, 2 at, per day (303 days)	5 50
Cement Worker, 1 at, per day (303 days)	2 50
Carpenter, 1 at, per day (303 days)	5 00
Laborer, 1 at, per day (303 days)	3 00
Laborers, 100 at, per day (365 days)	2 50
Laborers, 99 at, per day (302 days)	2 50

Budgetary, part allowance, $257,622.40.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller in the matter of the modification of four schedules of wages, Regular Employees (Accounts Nos. 965, 967, 969 and 1021), supporting appropriation made to the said Department for the year 1911, involving a transfer of $343.75, in order to provide for increase in compensation of one Foreman Machinist from $4.50 to $5 per diem, and five Plumbers from $5 to $5.50 per diem, in conformity with recent establishment of said grades, pursuant to provisions of section 56 of the Greater New York Charter:

Headquarters Fire Department, City of New York, 157-159 East 67th Street, Borough of Manhattan, July 18, 1911.

Hon. William J. Gaynor, *Mayor, and Chairman Board of Estimate and Apportionment:*

Sir—To provide for the payment for the remainder of the current year from July 1, 1911, of contemplated increases in the per diem compensation of 1 Foreman Machinist, from $4.50 to $5, and of 5 Plumbers from $5 to $5.50, rates fixed by the Board of Aldermen, pursuant to the provisions of section 56 of the Greater New York Charter, also of an additional Blacksmith's Helper in lieu of Foreman Steamfitter, I have the honor to request revision and modification of wage schedule supporting appropriations made to this Department for 1911 and certain transfers in connection therewith, as set forth in the accompanying statement.

The proposed revision and modification will involve no increase in the total of the appropriations made to this Department for the current year. The necessary funds will become available by the elimination of two positions of Stableman, Hospital and Training Stables, Boroughs of Manhattan, The Bronx and Richmond, both of the former incumbents having died since the beginning of the year, and one position of Foreman Steamfitter, the late incumbent having been removed.

Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 18, 1911, the Commissioner of the Fire Department requested modification of four schedules for wages, regular employees, in his Department, for 1911, involving a transfer of $343.75. In connection therewith, I report as follows:

It is proposed to increase the per diem compensation of a Foreman Machinist from $4.50 to $5; and of five Plumbers from $5 to $5.50. Grades for the proposed rates have been fixed by the Board of Aldermen, pursuant to the provisions of section 56 of the Greater New York Charter. It is also proposed to substitute a Blacksmith's Helper for a Foreman Steamfitter.

The necessary funds are to be made available by the elimination of two Stablemen and the Foreman Steamfitter.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
965.	Foreman Steamfitter, 1 at $5 a day (277 days)	$1,385 00	....	$687 50	....
	Foreman Machinist, 1 at $4.50 a day (277 days)	1,246 50	....	618 75	....
	Foreman Machinist, 1 at $5 a day (277 days)	....	$1,385 00	....	$687 50
	Blacksmith's Helpers, 4 at $3 a day (277 days)	....	831 00	....	412 50
967.	Stablemen, 2 at $730 per annum	1,460 00	....	730 00	....
	Unassigned balance	....	1,183 00	....	592 50
969.	Plumbers, 3 at $5 a day (277 days)	4,155 00	....	2,062 50	....
	Plumbers, 3 at $5.50 a day (277 days)	....	4,570 50	....	2,268 75
1021.	Plumbers, 2 at $5 a day (277 days)	2,770 00	....	1,375 00	....
	Plumbers, 2 at $5.50 a day (277 days)	....	3,047 00	....	1,512 50
		$11,016 50	$11,016 50	$5,473 75	$5,473 75

I recommend that the request be granted by the adoption of the attached resolutions. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Fire Department, for the year 1911, to be effective as of July 1, 1911, as follows:

Fire Department.

General Administration, Manhattan, The Bronx and Richmond, Repair Shops—

965. Wages, Regular Employees:

Drivers, 3 at $1,000	$3,000 00
Driver	912 00
Elevatorman	900 00
Foreman Hostler	1,200 00
Hostlers, 5 at $912	4,560 00
Foreman Laborer	1,200 00
Laborers, 4 at $3 a day (277 days)	3,324 00
Watchmen, 2 at $912.50	1,825 00
Brass Finishers, 3 at $4 a day (277 days)	3,324 00
Boilermaker, 1 at $3.50 a day (277 days)	969 50
Foreman Blacksmith, 1 at $4.50 a day (277 days)	1,246 50
Blacksmiths, 4 at $4.50 a day (277 days)	4,986 00
Blacksmiths' Helpers, 4 at $3 a day (277 days)	3,324 00
Carpenters, 3 at $5 a day (277 days)	4,155 00
Coremaker, 1 at $3.50 a day (277 days)	969 50
Harnessmakers, 2 at $4 a day (277 days)	2,216 00
Hose Repairers, 2 at $3.50 a day (277 days)	1,939 00
Lampmaker, 1 at $4 a day (277 days)	1,108 00
Mechanic, 1 at $3.50 a day (277 days)	969 50
Foreman Machinist, 1 at $5 a day (277 days)	1,385 00
Machinists, 16 at $4.50 a day (277 days)	19,944 00
Machinists' Helpers, 2 at $2.50 a day (277 days)	1,385 00
Machinists' Apprentice, 1 at $1.75 a day (277 days)	484 75
Moulder, 1 at $4 a day (277 days)	$1,108 00
Nickel Platers, 2 at $4 a day (277 days)	2,216 00
Patternmaker, 1 at $4 a day (277 days)	1,108 00
Foreman Painter, 1 at $4.50 a day (277 days)	1,246 50
Painters, 3 at $4 a day (277 days)	3,324 00
Carriage Painter, 1 at $4 a day (277 days)	1,108 00

Painters and Stripers, 2 at $4.50 a day (277 days)	2,493 00
Stripers, 3 at $4 a day (277 days)	3,324 00
Painter and Letterer, 1 at $4 a day (277 days)	1,108 00
Rubber Tire Repairers, 2 at $4 a day (277 days)	2,216 00
Stoker, 1 at $3 a day (277 days)	831 00
Steamfitters, 2 at $5.50 a day (277 days)	3,047 00
Foreman Saw Filer, 1 at $4 a day (277 days)	1,108 00
Toolman, 1 at $4 a day (277 days)	1,108 00
Upholsterer, 1 at $4 a day (277 days)	1,108 00
Varnisher, 1 at $4 a day (277 days)	1,108 00
Foreman Wheelwright, 1 at $4.50 a day (277 days)	1,246 50
Wheelwrights, 4 at $4 a day (277 days)	4,432 00
Laborer, 1 at $3 a day (303 days)	909 00
	$99,475 75

Hospital and Training Stables—

967. Wages, Regular Employees:

Foreman Hostler	$1,200 00
Hostlers, 6 at $912	5,472 00
Drivers, 3 at $1,000	3,000 00
Drivers, 4 at $912	3,648 00
Laborer, 1 at $3 a day (365 days)	1,095 00
Unassigned balance	1,183 00
	$15,598 00

Bureau of Repairs and Supplies—

969. Wages, Regular Employees:

Drivers, 2 at $1,000	$2,000 00
Laborers, 2 at $912.50	1,825 00
Carpenters, 7 at $5 a day (277 days)	9,695 00
Plumbers, 3 at $5.50 a day (277 days)	4,570 50
Tinsmiths, 3 at $4.75 a day (277 days)	3,947 25
Painters, 2 at $4 a day (277 days)	2,216 00
Caulker, 1 at $3.50 a day (277 days)	969 50
Ship Caulker, 1 at $3.50 a day (277 days)	969 50
House Painters, 2 at $4 a day (277 days)	2,216 00
Wagon Painter, 1 at $4 a day (277 days)	1,108 00
Engineman, 1 at $4.50 a day (277 days)	1,246 50
Pipefitters' Helper, 1 at $2.50 a day (277 days)	692 50
Foreman House Painter, 1 at $4.50 a day (277 days)	1,246 50
Varnisher, 1 at $4 a day (277 days)	1,108 00
Foreman Ship Carpenter, 1 at $4.50 a day (313 days)	1,408 50
Compositors, 2 at $4.50 a day (277 days)	2,493 00
	$37,711 75

General Administration, Brooklyn and Queens, Bureau of Repairs and Supplies—

1021. Wages, Regular Employees:

Carpenters, 5 at $5 a day (277 days)	$6,925 00
Plumbers, 2 at $5.50 a day (277 days)	3,047 00
Tinsmith, 1 at $4.75 a day (277 days)	1,315 75
Roofer, 1 at $4.75 a day (277 days)	1,315 75
Toolman, 1 at $4 a day (277 days)	1,108 00
Tinsmith and Roofer, 1 at $4.75 a day (277 days)	1,315 75
Laborer, 1 at $3 a day (277 days)	831 00
Bricklayer, 1 at $5.60 a day (277 days)	1,551 20
Driver	912 00
Unassigned balance	238 25
	$18,559 70

Which was adopted by the following vote:

Affirmative—The Comptroller. the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New

York Charter, the Board of Estimate and Apportionment hereby approves transfers of funds appropriated to the Fire Department for the year 1911, as follows:

From

General Administration, Manhattan, The Bronx and Richmond, Repair Shops—

965. Wages, regular employees	$206 25

General Administration, Manhattan, The Bronx and Richmond, Hospital and Training Stables—

967. Wages, regular employees	$137 50

To

General Administration, Manhattan, The Bronx and Richmond, Bureau of Repairs and Supplies—

969. Wages, regular employees	$206 25

General Administration, Brooklyn and Queens, Bureau of Repairs and Supplies—

1021. Wages, regular employees	$137 50

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Acting President of the Borough of Brooklyn requesting, and report of the Comptroller relative to, the modification of budgetary part allowance Schedule No. 1804 for the office of the President of the Borough of Brooklyn, for the year 1911, providing for increase in salary of an Assistant Engineer from $3,000 to $4,000, and of two Assistant Engineers from $2,550 to $3,000 each per annum, also for the elimination of the positions of Axeman at $750, Draftsman's Helper at $1,050, and Clerk at $300 per annum, to take effect as of August 1, 1911:

July 20, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller:*

Dear Sir—I respectfully request that you kindly prepare for the Board of Estimate and Apportionment a resolution modifying Salary Schedule No. 1804, "Bureau of Sewers, Engineering Division, Regular Force," this Department, in accordance with the attached statement.

This modification will allow for the increase in salary of one Assistant Engineer from $3,000 to $4,000 and two Assistant Engineers from $2,550 to $3,000. It eliminates two Assistant Engineers at $2,550, one Axeman at $750, one Draftsman's Helper at $1,050, and one Clerk at $300.

This modification will not increase the appropriation for the year 1911 and does not require any transfer of funds. I would, therefore, respectfully request that this matter be given early consideration, and if possible a report be prepared for the meeting of the 27th, increases to be effective August 1, 1911.

Very truly yours, L. H. POUNDS, Acting Borough President.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 20, 1911, the Acting President of the Borough of Brooklyn requested modification of the budgetary part allowance schedule for the Bureau of Sewers, Engineering Division, Regular Force, No. 1804, Salaries, in his office for the year 1911. In connection therewith I report as follows:

Increases in compensation, at a yearly cost of $1,900, are proposed for three incumbents. Three positions, amounting to $2,100 yearly, are to be abolished.

The following table shows the changes involved:

Increase in Compensation.

	Present Rate.	Proposed Rate.	Increase Per Annum.
Assistant Engineer	$3,000 00	$4,000 00	$1,000 00
Assistant Engineers, 2 at	2,550 00	3,000 00	900 00
			$1,900 00

Positions Abolished.

Axeman, 1 at	$750 00
Draftsman's Helper, 1 at	1,050 00
Clerk, 1 at	300 00
	$2,100 00

The incumbents proposed for increases, their periods of service, etc., are as follows:

Frank R. Bartlett, Assistant Engineer, from $3,000 to $4,000 per annum. Mr. Bartlett was appointed on February 28, 1895, at $1,350 per annum. On March 7, 1899, he was increased to $1,600; on February 1, 1901, to $1,800; on December 1, 1901, to $2,100; on June 15, 1903, to $2,250, and on April 1, 1906, to the present rate.

Isaac H. Kirby, Assistant Engineer, from $2,550 to $3,000 per annum. Mr. Kirby was appointed on April 3, 1900, as Rodman, at $1,000 per annum. On February 1, 1901, he was promoted to Leveler, at $1,320; on May 1, 1902, he was increased to $1,350, and on June 15, 1903, he was promoted to Transitman, at $1,650. On January 1, 1905, he was increased to $1,800, and on November 1, 1905, he was promoted to Assistant Engineer, at $1,800. On January 1, 1907, he was increased to $2,250, and on June 1, 1909, to present rate.

John C. Reidel, Assistant Engineer, from $2,550 to $3,000 per annum. Mr. Reidel was appointed as a Chainman on January 14, 1901, at $1,200 per annum. On June 15, 1903, he was promoted to Transitman, at $1,650. On January 1, 1905, he was increased to $1,800. On February 1, 1907, he was promoted to Assistant Engineer, at $2,250, and on May 1, 1909, he was increased to the present rate.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.	
		Decrease.	Increase.
1804.	Assistant Engineers, 3 at $4,000	....	$4,000 00
	Assistant Engineers, 6 at $3,000	....	3,000 00
	Assistant Engineers, 4 at $2,550	$5,100 00	....
	Axeman, 1 at $750	750 00	....
	Clerk, 1 at $300	300 00	....
	Draftsman's Helpers, 2 at $1,050	1,050 00	....
		$7,200 00	$7,000 00

The attached resolution, if adopted, will grant the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Brooklyn, for the year 1911, to take effect as of August 1, 1911, as follows:

President Borough of Brooklyn.

Bureau of Sewers, Engineering Division, Regular Force—

		Per Annum.
1804.	Salaries:	
	Chief Engineer, 1 at	$6,000 00
	Assistant Engineers, 4 at	4,000 00
	Assistant Engineers, 7 at	3,000 00
	Assistant Engineers, 2 at	2,550 00
	Assistant Engineers, 9 at	2,250 00
	Assistant Engineers, 2 at	2,100 00
	Assistant Engineers, 4 at	1,800 00
	Transitmen, 8 at	1,800 00
	Levelers, 3 at	1,500 00
	Rodmen, 9 at	1,200 00
	Axemen, 3 at	900 00
	Architectural Draftsman, 1 at	1,800 00
	Draftsman, 1 at	1,800 00
	Topographical Draftsmen, 3 at	1,800 00
	Topographical Draftsmen, 4 at	1,650 00
	Topographical Draftsmen, 7 at	1,500 00

Mechanical Draftsman, 1 at	1,500 00
Mechanical Draftsman (Sanitary), 1 at	1,350 00
Draftsman's Helper, 1 at	1,050 00
Clerk, 1 at	2,100 00
Clerk, 1 at	1,800 00
Clerk, with Knowledge of Typewriting, 1 at	1,500 00
Stenographers and Typewriters, 3 at	1,200 00
Stenographer and Typewriter, 1 at	1,050 00
Clerk, 1 at	540 00
Automobile Engineman, 1 at	1,200 00
Inspectors of Sewer Construction, 34 at per diem (313 days)	4 00
Wages, Regular Employees:	
Drivers, 4 at	900 00
Drivers, 2 at $2.50 per diem (313 days).	
Laborers, 4 at $3 per diem (313 days).	
Laborers, 5 at $2.50 per diem (313 days).	
Laborers, 5 at $2.50 per diem (365 days).	
Budgetary, part allowance, $88,100.	

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Parks, Borough of The Bronx, requesting, and report of the Comptroller recommending, the modification of Salary Schedule No. 1133 supporting the appropriation made in the Budget for the year 1911, for said Department, providing for the substitution of an Automobile Engineman at $1,200 per annum for a Driver at the same rate, to take effect August 1, 1911:

The City of New York, Department of Parks, Office of Commissioner for the Borough of The Bronx, Zbrowski Mansion, Claremont Park, July 10, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, and Chairman Board of Estimate and Apportionment*, 277 Broadway, New York City:

Sir—I respectfully request modification in Schedule 1133, Maintenance of Parks and Boulevards, Wages, Regular Employees, 1911, as follows:

Line, Drivers, 2 at $1,200—$2,400, to be amended to read Driver, 1 at $1,200; insert Automobile Engineman, 1 at $1,200.

Schedule as revised to read as follows:

Department of Parks, The Bronx.

Maintenance of Parks and Boulevards—

1133. Wages, Regular Employees, 1911:	
Foremen, 15 at $1,200	$18,000 00
Helper (Storeroom)	900 00
Janitress	600 00
Cottage Attendant	720 00
Cleaners, 3 at $600	1,800 00
Assistant Foremen, 10 at $3.50 per day (303 days)	10,605 00
Gardeners, 2 at $1,200	2,400 00
Gardeners, 15 at $900	13,500 00
Hostlers, 6 at $2.50 per day (365 days)	5,475 00
Driver	1,200 00
Automobile Engineman	1,200 00
Drivers, 2 at $2.75 per day (313 days)	1,721 50
Drivers, 5 at $2.50 per day (365 days)	4,562 50
Driver, 1 at $2.50 per day (277 days)	692 50
Stablemen, 3 at $2.50 per day (365 days)	2,737 50
Climber and Pruner, 1 at $2.50 per day (303 days)	757 50
Balance unassigned	110 00
	$66,981 50

The foregoing revision is requested for the purpose of providing an Automobile

Engineman for the Superintendent's automobile. The two Drivers originally provided for were to drive the Commissioner and Superintendent respectively; now that the Superintendent has an automobile, one less Driver will be needed, and the Automobile Engineman is a necessity.

Trusting that the above request will meet with the approval of your honorable Board, I remain. Respectfully,

T. J. HIGGINS, Commissioner of Parks, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 10, 1911, the Commissioner of Parks, Borough of The Bronx, requested modification of the 1911 schedule, No. 1133, Maintenance of Parks and Boulevards, Wages, Regular Employees. In connection therewith, I report as follows:

It is proposed to eliminate a Driver at $1,200 per annum, and substitute an Automobile Engineman at the same rate. There are two automobiles in the Department, and only one Automobile Engineman.

A previous request for this modification was made on May 25, 1911, but at that time the grade was limited to one incumbent. The request was held pending the establishment of the grade for an additional incumbent, pursuant to the provisions of section 56 of the Greater New York Charter. The grade for one additional incumbent was established on July 18, 1911.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1133.	Drivers, 2 at $1,200..........	$1,200 00	....	$500 00	....
	Automobile Engineman, 1 at $1,200	....	$1,200 00	....	$500 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Parks, Borough of The Bronx, for the year 1911, to take effect August 1, 1911, as follows:

Department of Parks, Borough of The Bronx.

Maintenance, Parks and Boulevards—

1133. Wages, Regular Employees:

Foremen, 15 at $1,200	$18,000 00
Helper (Storeroom)	900 00
Janitress	600 00
Cottage Attendant	720 00
Cleaners, 3 at $600	1,800 00
Assistant Foremen, 10 at $3.50 per day (303 days)	10,605 00
Gardeners, 2 at $1,200	2,400 00
Gardeners, 15 at $900	13,500 00
Hostlers, 6 at $2.50 per day (365 days)	5,475 00
Driver	1,200 00
Automobile Engineman	1,200 00
Drivers, 2 at $2.75 per day (313 days)	1,721 50
Drivers, 5 at $2.50 per day (365 days)	4,562 50
Driver, 1 at $2.50 per day (277 days)	692 50
Stablemen, 3 at $2.50 per day (365 days)	2,737 50
Climber and Pruner, 1 at $2.50 per day (303 days)	757 50
Balance unassigned	110 00
	$66,981.50

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs

of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller recommending, approval of a schedule of salaries for corporate stock funds in the said Department for the years 1911 and 1912, Bureau of Repairs and Supplies, Division of Buildings, providing for an additional force necessary for the carrying out of plans for the improvement and extension of the fire alarm telegraph system:

Fire Department of The City of New York, Office of the Commissioner. July 19, 1911.

Hon. William A. Prendergast, *Comptroller:*

Sir—In compliance with today's telephonic request of Mr. Savage, of the Bureau of Municipal Investigation and Statistics, of your Department, I have the honor to furnish list of employees at present paid from proceeds of corporate stock issues and their salaries, as follows:

Bureau of Repairs and Supplies.

Division of Buildings (Payable from Sites and Buildings C-FD-19)—

3 Inspectors of Building at $1,800 each (Charles S. McCarthy, John R. Sliney, Harry T. Booth).

2 Architectural Draftsmen at $1,500 each (George Stiratt, Charles A. Rhind).

1 Inspector of Masonry Construction at $1,500 (Andrew J. Fleming).

Fire Alarm Telegraph Bureau.

Fire Alarm Telegraph System, Borough of Manhattan, Installation of New System (Payable from C-FD-3B)—

1 Electrical Engineer at $5,000 (John C. Rennard).

2 Assistant Electrical Engineers at $1,800 each (Charles M. Reed, Byron W. Smith).

2 Cable Testers at $1,200 each (David G. Shears, Jr., G. Raymond Mackey).

1 Architectural Draftsman at $1,050 (William L. Schlubdibir).

1 Stenographer and Typewriter at $1,050 (Peter J. Hickey).

Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 27 and July 19, 1911, the Fire Commissioner requested the approval of a schedule for salaries, to be paid from corporate stock funds, in his Department during the years 1911 and 1912.

The Commissioner states that the force is necessary in order to carry on the work of the Division of Buildings and the Fire Alarm Telegraph Bureau.

The schedule calls for additional force, as follows:

		Rate per annum.
Assistant Electrical Engineers	2 at	$1,800 00
Cable Testers	3 at	1,200 00
Cable Splicers	2 at	1,200 00
Stenographer and Typewriter	1 at	1,050 00

The additional employees are stated to be necessary for the carrying out of plans for the improvement and extension of the fire alarm telegraph system.

I recommend the adoption of the attached resolution approving the schedule, as requested. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules of salaries for Corporate Stock funds in the Fire Department for the years 1911 and 1912, as follows:

Bureau of Repairs and Supplies, Division of Buildings—

Salaries:

Inspectors of Buildings	**4 at**	**$1,800 00**
Draftsman	**1 at**	**1,500 00**
Architectural Draftsmen	**2 at**	**1,500 00**
Inspector of Masonry Construction	**1 at**	**1,500 00**

Fire Alarm Telegraph Bureau—

Salaries:

Electrical Engineer	1 at	$5,000 00
Assistant Electrical Engineers	2 at	1,800 00
Cable Testers	3 at	1,200 00
Cable Splicers	2 at	1,200 00
Architectural Draftsmen	2 at	1,050 00
Stenographers and Typewriters	2 at	1,050 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communications from the Department of Correction requesting, and report of the Comptroller recommending, the modification of Schedules Nos. 273, 276, 279, 282 and 285, supporting the lump appropriations made in the Budget for the year 1911, for the wages of Keepers in said Department, by transferring the sum of $850 to provide for the wages of Keepers in the Penitentiary, Branch Workhouse and Reformatory, to take effect July 1, 1911:

City of New York, Department of Correction, July 22, 1911.

Hon. William A. Prendergast, *Comptroller,* New York City:

Dear Sir—I would respectfully request the honorable the Board of Estimate and Apportionment to authorize the revision of the Wages, Keepers' Schedule, in the following items, viz.:

273. City Prison (Manhattan), Wages, Keepers from 42 employees at total yearly cost of $45,950 to 42 employees, total	$45,250 00
276. Workhouse, B. I., Wages, Keepers from 33 employees at total yearly cost of $37,350 to 33 employees, total	37,200 00
279. Penitentiary, B. I., Wages, Keepers from 64 employees at total yearly cost of $70,500 to 64 employees, total	70,800 00
282. Branch Workhouse, H. I., Wages, Keepers from 13 employees at total yearly cost of $11,950 to 13 employees, total	12,350 00
285. Reformatory, H. I., Wages, Keepers from 12 employees at total yearly cost of $11,600 to 12 employees, total	11,750 00

Inasmuch as no additional appropriation will be required, I trust that your honorable Board will take favorable action in the matter.

Very respectfully, PATRICK A. WHITNEY, Commissioner.

City of New York, Department of Correction, July 24, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—In order to provide for the revision of the schedules requested in our communication to you of July 22, 1911, I would request the transfer of $850 from appropriations entitled:

273. City Prison (Manhattan), Wages, Keepers	$700 00
276. Workhouse, B. I., Wages, Keepers	150 00
	$850 00
To	
279. Penitentiary, B. I., Wages, Keepers	$300 00
282. Branch Workhouse, H. I., Wages, Keepers	400 00
285. Reformatory, H. I., Wages, Keepers	150 00
	$850 00

Inasmuch as no additional appropriation will be required, I trust that the honorable the Board of Estimate and Apportionment will take favorable action in the matter.

Respectfully, PATRICK A. WHITNEY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 22, 1911, the Commissioner of Correction requested modification of 1911 schedules Nos. 273, 276, 279, 282 and 285 supporting the lump appropriations for the wages of Keepers. In connection therewith I report as follows:

The only change involved is the transfer of $850 to provide for the wages of Keepers in the Penitentiary, Branch Workhouse and Reformatory. It is stated that the deficit has been caused by the transfer of Keepers at different grades from one institution to another.

The change entails no additional cost to the City.

I recommend the adoption of the attached resolutions granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Correction for the year 1911, as follows, to take effect July 1, 1911:

Department of Correction.

	Administration of Institutions, District Prisons—	
	City Prison:	
273.	Wages, Keepers (42)	$45,250 00
	Workhouse:	
276.	Wages, Keepers (33)	$37,200 00
	Penitentiary:	
279.	Wages, Keepers (64)	$70,800 00
	Branch Workhouse, Harts Island:	
282.	Wages, Keepers (13)	$12,350 00
	Reformatory, Harts Island:	
285.	Wages, Keepers (12)	$11,750 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfers of funds appropriated to the Department of Correction for the year 1911, as follows:

Department of Correction.

	From	
	Administration of Institutions, District Prisons—	
	City Prison:	
273.	Wages, Keepers	$700 00
	Workhouse:	
276.	Wages, Keepers	150 00
	To	
	Administration of Institutions, District Prisons—	
	Penitentiary:	
279.	Wages, Keepers	$300 00
	Branch Workhouse, Harts Island:	
282.	Wages, Keepers	400 00
	Reformatory, Harts Island:	
285.	Wages, Keepers	150 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communications from the Department of Correction requesting, and report from the Comptroller relative to, the modification of Salary Schedules Nos. 249 and 250, supporting the appropriation made in the Budget for the year 1911, for said Department, providing for a General Bookkeeper and Auditor at $3,000, instead of $3,600, the present rate, for the increase in salary of three Clerks, one from $1,800 to $2,100, one from $1,000 to $1,200 and one from $1,200 to $1,500 per annum; also for the elimination of a Clerk at $1,800 per annum, involving the transfer of $300, said modification to be effective from August 1, 1911:

Department of Correction of The City of New York, Commissioner's Office, 148 E. 20th street, July 22, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller*, City of New York:

Dear Sir—Owing to the death of the General Bookkeeper and Auditor of this Department on April 12, 1911, it has become necessary to reorganize the positions in the central office, and with this end in view, I have made the accompanying application for a modification of the salaries schedules, numbers 249 and 250.

The work in this office has been somewhat hampered on account of existing conditions, and it is essential that this be remedied at an early date. The following contemplated changes will bring about the desired results: Promotion of the Clerk first in line to fill the vacancy; the establishment of an additional position, and the advancement of three worthy Clerks. These changes can be made without any additional appropriation, as the amount allowed will suffice; and the additional grades required have already been established.

I would like very much to put these change into effect on August 1, 1911, and would respectfully request that you give this matter your immediate consideration.

In order that the work of this office may be properly carried out, I trust that you will act favorably on this appeal.

Yours very respectfully, PATRICK A. WHITNEY, Commissioner.

City of New York, Department of Correction, July 22, 1911.

Hon. WILLIAM A. PRENDERGAST, *Comptroller:*

Dear Sir—I would respectfully request the honorable the Board of Estimate and Apportionment to authorize the revision of the salary schedules, transmitted herewith; also the transfer of $300 from appropriation entitled,

250. Office of the General Bookkeeper and Auditor, Salaries—

To

249. Office of the Commissioner, Salaries.

Inasmuch as no additional appropriation will be required, I trust that your honorable Board will take favorable action thereon.

Very respectfully, PATRICK A. WHITNEY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation

Gentlemen—On July 20, 1911, the Commissioner of Correction requested modification of schedules No. 249, Salaries, Office of the Commissioner, and No. 250, Salaries, Office of the General Bookkeeper and Auditor, necessitating a transfer of $300 within appropriation to the Department for 1911. In connection therewith I report as follows:

The Commissioner states that as a result of the death of John P. Dreyer, General Bookkeeper and Auditor, it has become necessary to reorganize the office of the General Bookkeeper within the Budget allowance for salaries for the year.

The modification calls for a General Bookkeeper and Auditor, at $3,000 per annum, instead of at the rate of $3,600 paid to Mr. Dreyer. It also calls for an increase for John J. O'Neill, a Clerk, from $1,800 to $2,100 per annum, a Clerk from $1,000 to $1,200 per annum, and for an additional position of Inspector of Repairs and Supplies, at $1,500. In No. 249, the only change is an increase in the salary of a Clerk, from $1,200 to $1,500 per annum.

The funds for the several changes are to be provided by eliminating a Clerk at $1,800 per annum.

The need for the reorganization was considered by the Select Committee of this Board. The grades for the changes were established on July 11, 1911, pursuant to the provisions of section 56 of the Greater New York Charter.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer. Decrease.	Schedule Transfer. Increase.	Cash Transfer. Decrease.	Cash Transfer. Increase.
249.	Clerk, 1 at $1,200........	$1,200 00	....	$500 00	....
	Clerk, at $1,500..........	....	$1,500 00	....	$625 00
250.	General Bookkeeper and Auditor, 1 at $3,600....	3,600 00	....	1,500 00	....
	General Bookkeeper and Auditor, at $3,000......	....	3,000 00	....	1,250 00

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
	Clerk, 1 at $1,800........	1,800 00	....	750 00	....
	Inspector of Supplies and Repairs, 1 at $1,500....	....	1,500 00	....	625 00
	Clerk, Stenographer and Typewriter, 1 at $1,800.	1,800 00	....	750 00	....
	Clerk, 1 at $2,100........	....	2,100 00	....	875 00
	Clerk, 1 at $1,000........	1,000 00	....	416 66	....
	Clerk, 1 at $1,200........	....	1,200 00	....	500 00
	Balance unassigned......	....	100 00	....	41 66
		$9,400 00	$9,400 00	$3,916 66	$3,916 66

The attached resolution, if adopted, will grant the request. Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Correction, for the year 1911, to take effect August 1, 1911, as follows:

Department of Correction.

General Administration, Office of the Commissioner—

249. Salaries:

Commissioner	$7,500 00
Deputy Commissioner	4,000 00
Secretary	3,000 00
Private Secretary	2,500 00
Clerk	1,800 00
Clerk	1,500 00
Clerk	800 00
Clerk	480 00
Telephone Operator	600 00
	$22,180 00

Office of the General Bookkeeper and Auditor—

250. Salaries:

General Bookkeeper and Auditor	$3,000 00
Inspector	2,500 00
Purchasing Agent	1,800 00
Inspector of Repairs and Supplies	1,500 00
Clerk	2,100 00
Clerk	1,200 00
Laundress	450 00
Cleaner	240 00
Balance unassigned	100 00
	$12,890 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

—

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 237 of the Greater New York Charter, the Board of Estimate and Apportionment hereby approves transfers of funds appropriated to the Department of Correction for the year 1911, as follows:

Department of Correction.

From

Office of the General Bookkeeper and Auditor—

250. Salaries	$300 00

To

Office of the Commissioner—
249. Salaries $300 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller relative to, the approval of salary schedule as revised for the Account S-216, Maintenance and Distribution of Water Supply in the Borough of Brooklyn, 1911, Administration, Salaries, Bureau of Water Register, providing for the increase in salary of an Inspector of Meters and Water Consumption from $1,800 to $2,100 per annum and for the decrease in salary of a Clerk from $1,200 to $900 per annum:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, July 8, 1911.

Hon. William A. Prendergast, *Comptroller:*

Dear Sir—The Board of Aldermen, at the request of the Board of Estimate and Apportionment, recently established, under section 56 of the Charter, the rate of $2,100 per annum for an Inspector in the Bureau of Water Registrar, Borough of Brooklyn, and, in order that I may promote from a salary of $1,800 the Inspector in charge, for whom this new rate was established, I request that you recommend to the Board of Estimate and Apportionment that they approve the enclosed salary schedule, supporting account S-216, entitled "Maintenance and Distribution of Water Supply in the Borough of Brooklyn, 1911, Administration, Salaries, Bureau of Water Registrar." Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 8, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the water revenue schedule supporting the Account S-216, Maintenance and Distribution of Water Supply in the Borough of Brooklyn, 1911, Administration, Salaries, Bureau of Water Registrar. In connection therewith, I report as follows:

It is proposed to increase an Inspector of Meters and Water Consumption from $1,800 to $2,100 per annum. The $300 necessary is to be provided by decreasing a Clerk from $1,200 to $900 per annum. The grade for the increase was established on June 6, 1911, pursuant to the provisions of section 56 of the Greater New York Charter.

The incumbent proposed for increase is Charles W. Rennie, appointed on November 15, 1901, at $1,000, and increased as follows: June 1, 1905, to $1,200; May 1, 1906, to $1,350; April 1, 1907, to $1,500; July 1, 1909, to present rate.

The following table shows the schedule changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
S-216.	Inspector of Meters and Water Consumption, 1 at $1,800	$1,800 00	....	$900 00	....
	Inspector of Meters and Water Consumption, 1 at $2,100	....	$2,100 00	....	$1,050 00
	Clerks, 10 at $1,200........	1,200 00	....	600 00	....
	Clerks, 28 at $900..........	....	900 00	....	450 00
		$3,000 00	$3,000 00	$1,500 00	$1,500 00

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule as revised for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Bureau of Water Register, Borough of Brooklyn, Water Revenue Force—Salaries, Regular Employees:

Water Registrar	1 at	$4,000 00
Cashier	1 at	2,250 00
Financial Clerk	1 at	2,100 00
Clerk	1 at	2,250 00
Clerks	3 at	1,650 00
Clerks	5 at	1,350 00
Clerks	9 at	1,200 00
Clerks	7 at	1,050 00
Clerks	29 at	$900 00
Clerk	1 at	540 00
Stenographers and Typewriters	2 at	1,200 00
Stenographers and Typewriters	4 at	1,050 00
Messenger	1 at	1,050 00
Inspector of Meters and Water Consumption	1 at	2,100 00
Inspectors	3 at	1,500 00
Inspector	1 at	1,250 00
Inspectors	9 at	1,200 00
Inspectors	73 at	1,100 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Comptroller relative to, the modification of the budgetary part schedule No. 461, for said Department, for the year 1911, providing for the increase in salary of a Clerk (Typewriting) from $1,200 to $1,350 per annum:

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, June 26, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I would like to promote, by an increase of salary from $1,200 to $1,350, a Clerk now employed at the Mount Prospect Laboratory, to which position he was transferred some three years ago with, I am informed, a promise of an increase in salary.

He has been in the Department for ten years, and is now, and has been for the past three years, performing work which requires a knowledge of technical and bacteriological terms, and the quantity and quality of the work performed are satisfactory, and I consider that he is clearly entitled to an increase.

I therefore request that the Board of Estimate and Apportionment modify the schedule supporting the account out of which he is paid, namely, "Water Supply, General Administration, Laboratories, Salaries, Maintenance and Construction Force, No. 461—1911."

A copy of the schedule with the proposed modification is enclosed.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1911, the Commissioner of Water Supply, Gas and Electricity requested modification of the budgetary part schedule, No. 461, Water Supply, General Administration, Laboratories, Salaries, Maintenance and Construction Force. In connection therewith, I report as follows:

It is proposed to increase the salary of a Clerk (Typewriting) from $1,200 to $1,350 per annum. The Commissioner states that the Clerk is in the Mount Prospect

Laboratory. He has been in the Department for ten years, and for the last three years has been doing work requiring a knowledge of technical and bacteriological terms. In the opinion of the Commissioner, the quantity and quality of the work entitles the incumbent to the increase.

The following table shows the schedule change in detail:

	Schedule Transfer.	
	Decrease.	Increase.
Clerk	$1,200 00	....
Clerk	....	$1,350 00

No change is proposed in the budgetary part allowance.

The attached resolution, if adopted, will grant the request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Water Supply, Gas and Electricity.

Water Supply, General Administration, Laboratories—

461. Salaries, Maintenance and Construction Force:

Chief Chemist	1 at	$3,500 00
Chemist	1 at	1,950 00
Chemists	4 at	1,500 00
Chemists	2 at	1,200 00
Bacteriologist	1 at	1,800 00
Bacteriologist	1 at	1,500 00
Bacteriologists	2 at	1,200 00
Laboratory Assistants	5 at	900 00
Clerk (Typewriting)	1 at	1,350 00
Clerk	1 at	1,050 00

Budgetary part allowance, $13,022.22.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Parks, Borough of Manhattan and Richmond, requesting, and report of the Comptroller relative to, approval of the schedule for salaries of the Engineering and Construction force paid from corporate stock account for said Department, for the years 1911 and 1912, providing for an increase of $600 in the salary of a Mechanical Engineer and for an additional force, consisting of an Assistant Engineer at $2,500, 2 Axemen at $900 each, and 3 Inspectors at $1,260 each per annum:

The City of New York, Department of Parks, The Arsenal, Central Park, July 19, 1911.

Hon. William A. Prendergast:

Sir—In conformity with your request, I forward schedule. Should you want any further information let me know. Yours truly, EDWARD A. MILLER.

Approved: Chas. B. Stover, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 19, 1911, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested the approval of a schedule for the salaries of the Engineering and Construction Force to be paid from corporate stock funds during the years 1911 and 1912.

The schedule calls for additional force, as follows:

		Rate Per Annum.
Assistant Engineer	1 at	$2,500 00
Axemen	3 at	900 00
Inspectors	3 at	1,260 00

It is stated that the additional employees are necessary to enable the Chief Engineer of the Department to handly properly large improvements about to be started for paving drives in Central Park, building bulkhead on the Harlem River drive, and the installation of a water system in Central Park.

The schedule provides an increase of $600 for a Mechanical Engineer. The grade of position for the increase was established on July 18, 1911, pursuant to the provisions of section 56 of the Greater New York Charter.

The attached resolution, if adopted, will grant the request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule of salaries for corporate stock funds in the Department of Parks, Boroughs of Manhattan and Richmond, for the years 1911 and 1912, as follows:

Parks, Boroughs of Manhattan and Richmond.

Engineering and Construction Force—

Salaries:

Assistant Engineers	3 at	$2,500 00
Transitmen	2 at	1,800 00
Mechanical Engineer	1 at	2,100 00
Leveler	1 at	1,320 00
Rodman	1 at	1,200 00
Rodmen	4 at	1,050 00
Axeman	1 at	1,050 00
Axemen	9 at	900 00
Inspectors	3 at	1,260 00
Topographical Draftsman	1 at	1,500 00
Laborer, 1 at, per day (312 days)		2 50

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following report of the Comptroller recommending the adoption of a resolution approving the schedule of the Revenue Bond Fund for the wages of three Stationary Engineers at $4.50 per diem each, for 825 days, and Hospital Helper (Mechanic) at $720 per annum for nine months, in Bellevenue Hospital.

(On March 23, 1911, the Board authorized the issue of $4,252.50 special revenue bonds (subdivision 8, section 188 of the Charter) to provide for the above salaries from April 1, 1911).

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 23, 1911, a resolution was adopted by the Board of Estimate and Apportionment authorizing $4,252.50 in special revenue bonds for the wages of three Stationary Engineers and one Hospital Helper-Mechanic, for nine months, beginning April 1, 1911, in the Department of Bellevue and Allied Hospitals. No schedule was then approved for the appropriation. I therefore recommend the adoption of the attached resolution, providing for a schedule, to be effective as of April 1, 1911. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the Revenue Bond Fund for the Department of Bellevue and Allied Hospitals for the year 1911, as follows:

Bellevue and Allied Hospitals.

Bellevue Hospital, Operation and Maintenance, Special Revenue Bond Force—Wages, Regular Employees:

Stationary Engineers, at $4.50 per diem (825 days)	$3,712 50
Hospital Helper-Mechanic, at $720 per annum (9 months)	540 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

(The resolution of the Board relative to the issue of $4,252.50 special revenue bonds, above referred to, appears in the Financial Minutes of March 23, 1911, at page 1142 of the pamphlet.)

The Secretary presented the following communication from the Acting Commissioner of Public Works, Borough of Richmond, requesting, and report of the Comptroller recommending approval, pursuant to resolution of June 3, 1910, of the plans, specifications and estimate of cost ($4,200) for the construction of a radial brick chimney at the Clifton Destructor, Borough of Richmond:

The City of New York, Office of the President of the Borough of Richmond, July 14, 1911.

Hon. William A. Prendergast, *Comptroller,* 280 Broadway, New York:

Dear Sir—Please find herewith contract, plan and specifications for the construction of a radial brick chimney at the Clifton Destructor, Borough of Richmond, to be paid out of corporate stock fund C-PR-3B. The estimated cost of this contract is $4,200.

If the contract, plan and specifications are found satisfactory, we will appreciate early action thereon, so that the contract may be advertised and the work commenced at an early date. Yours truly, WM. R. HILLYER, Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 14, 1911, the President of the Borough of Richmond requested approval of the plans, specifications and estimated cost in the sum of $4,200 for the construction of a radial brick chimney at the Clifton Destructor, Borough of Richmond.

The plans and specifications provide for the erection of a radial brick chimney, 134 feet in height, and 5 feet in diameter, on the foundation installed under the building contract.

The plans and specifications appear to be complete and satisfactory, and the estimate of cost reasonable.

The cost is to be charged to the corporate stock fund "C-PR-3B, for the Construction of a Refuse Destructor at Clifton, Borough of Richmond." There is a sufficient balance in the fund for the proposed expenditure.

I recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of June 3, 1910, hereby approves the plans, specifications and estimate of cost, four thousand two hundred dollars ($4,200), for the construction of a radial brick chimney at the Clifton Destructor, Borough of Richmond, under the jurisdiction of the President of the Borough of Richmond.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a communication from Transit Committee of the Chamber of Commerce of the Borough of Queens, making certain recommendations in regard to subway routes in the Borough of Queens.

Which was referred to the Committee of the Whole and to the Public Service Commission for the First District.

The Secretary presented the following resolution of the Board of Aldermen, adopted July 18, and approved by the Mayor July 25, 1911, concurring in the resolution of the Board of Estimate and Apportionment, adopted July 6, 1911, recommending the establishment of the grade of position of Clerk at $3,500 per annum, for one incumbent, in the office of the Board of Estimate and Apportionment:

In the Board of Aldermen.

Whereas, The Board of Estimate and Apportionment adopted the following resolution at a meeting held July 6, 1911:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment of the grade of position of Clerk, in the office of the Board of Estimate and Apportionment, in addition to those already existing therein, with salary at the rate of three thousand five hundred dollars ($3,500) per annum, for one incumbent.

Resolved, That the Board of Aldermen hereby approves of and concurs in the above resolution and fixes the salary of said position as set forth therein.

Adopted by the Board of Aldermen July 18, 1911, a majority of all the members elected voting in favor thereof.

Approved by the Mayor July 25, 1911. P. J. SCULLY, Clerk.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment July 6, 1911, which reads as follows:

"Resolved, That the resolution adopted by the Board of Estimate and Apportionment June 22, 1911, which reads as follows:

"'Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules for salary increases to be paid from other than budgetary funds under the jurisdiction of the Board of Estimate and Apportionment for the year 1911, as follows:

Board of Estimate and Apportionment.

General Administration—

Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Clerk, 1, from $750 to $900 per annum, from June 1, 1911	$150 00
Clerk, 1, from $300 to $480 per annum, from June 1, 1911	180 00
Stenographer and Typewriter, 1, from $1,500 to $2,100 per annum, from June 1, 1911	600 00
Stenographers and Typewriters, 2, from $1,500 to $1,650 per annum, from June 1, 1911	300 00
Stenographer and Typewriter, 1, from $1,350 to $1,650 per annum, from June 1, 1911	300 00
Stenographers and Typewriters, 2, from $1,350 to $1,500 per annum, from June 1, 1911	300 00

Public Improvements and Franchises, Office of Chief Engineer—

Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Assistant Engineer, 1, from $3,000 to $3,300 per annum, from June 1, 1911	$300 00
Stenographer and Typewriter, 1, from $2,250 to $2,700 per annum, from June 20, 1911	450 00

Division of Public Improvements—

Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Engineer, 1, from $6,000 to $7,500 per annum, from June 1, 1911	$1,500 00
Assistant Engineer, 1, from $3,000 to $3,500 per annum, from June 1, 1911	500 00
Assistant Engineer, 1, from $2,400 to $2,700 per annum, from June 1, 1911	300 00
Assistant Engineer, 1, from $2,250 to $2,700 per annum, from June 20, 1911	450 00
Stenographer and Typewriter, 1, from $1,500 to $1,800 per annum, from June 1, 1911	300 00

Topographical Draftsman, 1, from $2,000 to Assistant Engineer, at $2,400 per annum, from June 1, 1911	400 00
Clerk, 1, from $2,850 to $3,150 per annum, from June 20, 1911	300 00
Clerk, 1, from $1,350 to $1,650 per annum, from June 20, 1911	300 00
Clerk, 1, from $540 to $750 per annum, from June 1, 1911	210 00
Clerk, 1, from $480 to $750 per annum, from June 20, 1911	270 00

Division of Franchises—

Salary increases of regular employees to be paid from special revenue bonds:

	Per Annum.
Engineer, 1, from $6,000 to $7,500 per annum, from June 1, 1911	$1,500 00
Assistant Engineer, 1, from $3,300 to $3,800 per annum, from June 20, 1911	500 00
Assistant Engineer, 1, from $2,400 to $2,700 per annum, from June 1, 1911	300 00
Assistant Engineer, 1, from $2,400 to $2,700 per annum, from June 20, 1911	300 00
Topographical Draftsman, 1, *from* $1,800 *to Assistant Engineer, at* $2,100 *per annum, from June* 1, 1911	300 00
Clerk, 1, from $2,400 to $2,550 per annum, from June 1, 1911	150 00
Clerk, 1, from $1,500 to $1,800 per annum, from June 1, 1911	300 00
Clerk, 1, from $1,050 to $1,200 per annum, from June 1, 1911	150 00
Clerk, 1, from $600 to $750 per annum, from June 20, 1911	150 00
Clerk, 1, from $300 to $480 per annum, from June 1, 1911	180 00
Law Clerk, 1, from $1,650 to $1,950 per annum, from June 20, 1911	300 00
Stenographer and Typewriter, 1, from $1,200 to $1,350 per annum, from June 1, 1911	150 00
Stenographers and Typewriters, 2, from $1,050 to $1,350 per annum, from June 1, 1911	600 00

—be and the same is hereby amended by striking therefrom the item, "Topographical Draftsman, 1, *from* $1,800 *to Assistant Engineer at* $2,100 *per annum, from June* 1, 1911, $300," *and inserting in place thereof the item "Topographical Draftsman,* 1, *from* $1,800 to $2,100 *per annum, from June* 20, 1911, $300."

—be and the same is hereby further amended by adding the item "Clerk, 1, *from* $3,000 *to* $3,500 *per annum, from July* 25, 1911, $500," under the heading of *"General Administration."*

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Board of Education requesting, and report of the Comptroller recommending, the modification of salary schedule No. 1209 supporting the appropriation made in the budget for the year 1911 for the Department of Education, providing for the substitution of a Clerk at $400 for one at $300 per annum, involving no additional appropriation:

Department of Education, City of New York, Office of the Secretary, Park avenue and 59th street, July 14, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—In accordance with a resolution adopted by the Board of Education on November 23, 1910, the undersigned respectfully request modifications in Schedule No. 1209, Office of the Auditor, Salaries, for the year 1911, as follows:

Strike out—	
Clerks, 3 at $400	$1,200 00
Clerks, 6 at $300	1,800 00
Unassigned balance	120 00
and insert—	
Clerks, 4 at $400	$1,600 00
Clerks, 5 at $300	1,500 00
Unassigned balance	20 00

The above request involves no increase in appropriation.

A copy of the schedule, as modified, is enclosed.

Respectfully yours, A. E. PALMER, Secretary, Board of Education; HENRY R. M. COOK, Auditor, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 14, 1911, the Board of Education requested modification of the Salary Schedule No. 1209, Office of the Auditor, for the year 1911. In connection therewith I report as follows:

The only change proposed is the striking out of a Clerk at $300 per annum, and the adding of one at $400, the $100 necessary to be transferred from an unassigned balance of $120.

The following table shows the line item changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1209.	Clerks, 3 at $400............	....	$400 00	....	$200 00
	Clerks, 6 at $300............	$300 00	....	$150 00	....
	Unassigned balance $120.....	100 00	....	50 00	....
		$400 00	$400 00	$200 00	$200 00

It is stated that no increase in compensation is involved.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Board of Education for the year 1911, to take effect as of July 1, 1911, as follows:

Special School Fund.

General Administration, Office of the Auditor—

1209.	Salaries:	
	Auditor	$5,500 00
	Clerk	3,000 00
	Clerk	2,100 00
	Clerk	1,800 00
	Clerk	1,650 00
	Clerks, 2 at $1,500	3,000 00
	Bookkeeper	2,250 00
	Examiners of Claims, 8 at $1,500	12,000 00
	Clerk	1,350 00
	Clerks, 7 at $1,200	8,400 00
	Clerk	1,050 00
	Clerks, 4 at $900	3,600 00
	Clerk	660 00
	Clerks, 5 at $600	3,000 00
	Clerks, 5 at $540	2,700 00
	Clerks, 4 at $400	1,600 00
	Clerks, 5 at $300	1,500 00
	Stenographer and Typewriter	1,350 00
	Typewriter Accountants, 3 at $900	2,700 00
	Unassigned balance	20 00
		$59,230 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Acting President of the Borough of The Bronx requesting, and report of the Comptroller recommending, the modification of salary schedule No. 1762, supporting the appropriation made in the budget for the year 1911, for the office of the President of the Borough of The Bronx, providing for the decrease in compensation of a Typewriting Copyist from $750 to $600 per annum, said modification to be effective as of July 1, 1911:

The City of New York, Office of the President of the Borough of The Bronx, Municipal Building, Crotona Park, July 19, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—Request is hereby respectfully made for a modification of the schedule lines supporting the appropriation made to the Bureau of Buildings of this office, for the year 1911, as below described:

PRESIDENT, BOROUGH OF THE BRONX.

Bureau of Buildings—Administration.

Code 1762—Salaries—

Superintendent	$5,000 00
Secretary to Superintendent	2,500 00
Plan Clerk	1,800 00
Clerks, 3 at $1,800	5,400 00
Clerks, 2 at $1,650	3,300 00
Clerks, 3 at $1,500	4,500 00
Clerk	1,200 00
Clerk	300 00
Stenographers and Typewriters, 2 at $900	1,800 00
Typewriting Copyist	600 00
Messengers, 3 at $1,200	3,600 00
Automobile Enginemen, 2 at $1,200	2,400 00
Driver	900 00
Unassigned balance	1,200 00
	$34,500 00

The only change provided for in the above modification from the present schedule is the decrease of one Typewriting Copyist from $750 to $600. Respectfully,

THOMAS W. WHITTLE, Acting President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 19, 1911, the President of the Borough of The Bronx requested modification of salary schedule supporting the Budget appropriation to his office for the year 1911. In connection therewith I report as follows:

The request is in the Bureau of Buildings, Administration. The only change is a decrease in the compensation of a Typewriting Copyist from $750 to $600 per annum.

The following table shows the line item changes in detail:

Code No.		Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
1762.	Typewriting Copyist, 1 at $750	......	$750 00	......	$375 00
	Typewriting Copyist, at $600..	$600 00	......	$300 00	......
	Unassigned balance	150 00	......	75 00	......
		$750 00	$750 00	$375 00	$375 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of The Bronx for the year 1911, to take effect as of July 1, 1911, as follows:

President, Borough of The Bronx.

Bureau of Buildings, Administration—

1762. Salaries:

Superintendent	**$5,000 00**
Secretary to Superintendent	**2,500 00**
Plan Clerk	**1,800 00**
Clerks, 3 at $1,800	**5,400 00**
Clerks, 2 at $1,650	**3,300 00**
Clerks, 3 at $1,500	**4,500 00**

Clerk	1,200 00
Clerk	300 00
Stenographers and Typewriters, 2 at $900	1,800 00
Typewriting Copyist	600 00
Messengers, 3 at $1,200	3,600 00
Automobile Enginemen, 2 at $1,200	2,400 00
Driver	900 00
Unassigned balance	1,200 00
	$34,500 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Docks and Ferries requesting, and report of the Comptroller recommending, the modification of wage schedule Nos. 156, 167 and 196, supporting the appropriation made to said Department for the year 1911, providing for the elimination of a Roofer at $4.75 for 276 days and the addition of a Tinsmith and Roofer at $4.85 for 302 days, said modification to be effective as of July 1, 1911:

Department of Docks and Ferries, City of New York, Pier "A," North River, June 9, 1911.

Hon. William J. Gaynor, *Mayor and Chairman of the Board of Estimate and Apportionment:*

Sir—In the budget for this Department for the Mechanical Bureau, provision is made for the employment of one Roofer and also for the employment of one Tinsmith and Roofer.

I recommend that these two lines be combined and that instead of allowing one Roofer and one Tinsmith and Roofer the budget be modified to provide for two men under the joint title of Tinsmith and Roofer. The pay in both cases is the same and appointments to either position are made from the same civil service eligible list. The work done by both men is very similar.

The modification suggested will make the line available for either Roofer, Tinsmith or Tinsmith and Roofer. Yours very truly,

CALVIN TOMKINS, Commissioner of Docks.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a request of the Commissioner of Docks on June 9, 1911, for modification of a wage schedule supporting the appropriation to the Department of Docks and Ferries for the year 1911, I report as follows:

The request is in the Mechanical Bureau, Wages, Regular Employees. It is proposed to drop a Roofer, at $4.75, for 276 days and add a Tinsmith and Roofer, at $4.75, for 302 days. The increase is to be provided for by transfer from the unassigned balance of $708.70.

The Commissioner states that the modification will make the line item available for either Roofer, Tinsmith or Tinsmith and Roofer, as the appointments are made from the same Civil Service eligible list.

The following table shows the changes in detail:

Mechanical Bureau.

Schedule Line.	Schedule Transfer.		Cash Transfer.	
	Decrease.	Increase.	Decrease.	Increase.
Roofer, 1 at $4.75 per diem (276 days)	$1,311 00	......	$655 50	......
Tinsmith and Roofer, 1 at $4.75 per diem (302 days)	......	$1,434 50	......	$712 25
Unassigned balance	123 50	......	61 75	......
	$1,434 50	$1,434 50	$717 25	$717 25

I recommend the adoption of the attached resolution granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Docks and Ferries for the year 1911, to be effective as of July 1, 1911, as follows:

Department of Docks and Ferries.

Mechanical Bureau, 57th Street Yard—

The schedules included under this heading are the supporting schedules for and are apportioned to accounts in the Budget of the Department of Docks and Ferries, as follows:

156. Bureau of Engineering, Wages, Mechanical Bureau, Budgetary Part Allowance	$36,575 02
167. Bureau of Engineering, Maintenance of Floating Property While Engaged in Repairs, Wages, Mechanical Bureau, Budgetary Part Allowance	33,783 80
196. Bureau of Ferries, Maintenance, Wages, Mechanical Bureau, Budgetary Part Allowance	138,364 76
The amount represented by these schedules in excess of the Budget items is the estimate of the Department of the amount of corporate stock disbursements chargeable to the Mechanical Bureau for 1911.	
Chargeable to corporate stock amount	106,821 12
Total	$315,544 70

Mechanical Bureau—

Salaries:

Mechanical Engineers, 2 at $4,000 each	$8,000 00
Assistant Engineer	2,100 00
Draftsman	1,200 00
Clerk	2,100 00
Clerk	1,200 00
Clerks, 2 at $1,050 each	2,100 00
Clerk	900 00
Timekeeper	1,200 00
Stenographer and Typewriter	900 00
	$19,700 00

Wages, Regular Employees:

Pilot	1,650 00
Engineer (Marine)	1,500 00
Engineer (Pile Driver or Stationary), at $4.50 per day (364 days)	1,638 00
Engineer (Pile Driver or Stationary), $4.50 per day (312 days)	1,404 00
Stokers, 3 at $3.50 per day (364 days)	3,822 00
Stokers, 2 at $3.50 per day (312 days)	2,184 00
Oiler	1,140 00
Foreman Dock Laborers	1,500 00
Dock Laborers, 2 at $3 per day (364 days)	2,184 00
Dock Laborers, 11 at $2.50 per day (364 days)	10,010 00
Dock Laborers, 16 at $2.50 per day (312 days)	12,480 00
Watchmen, 3 at $2 per day (634 days)	2,184 00
Boat Builders, 2 at $4 per day (312 days)	2,496 00
Foremen Carpenters, 2 at $1,800 each	3,600 00
Carpenters, 10 at $4.80 per day (312 days)	14,976 00
Foremen Ship Carpenters, 2 at $5 per day (312 days)	3,120 00
Ship Carpenters, 40 at $4 per day (312 days)	49,920 00
Foreman Ship Caulker, 1 at $4.50 per day (312 days)	1,404 00
Ship Caulkers, 15 at $4 per day (312 days)	18,720 00
Foreman Painter	1,500 00
Painters, 9 at $4 per day (312 days)	11,232 00
Painters and Letterers, 2 at $4 per day (312 days)	2,496 00
Tinsmiths and Roofers, 2 at $4.75 per day (302 days)	2,869 00
Wood Sawyer, 1 at $4.50 per day (312 days)	1,404 00
Saw Filer, 1 at $4 per day (302 days)	1,208 00
Housesmith, 1 at $5 per day (302 days)	1,510 00

Blacksmiths, 7 at $4.50 per day (312 days)	9,828 00
Blacksmiths' Helpers, 9 at $3 per day (312 days)	8,424 00
Foreman Blacksmith, 1 at $5 per day (312 days)	1,560 00
Pipe Fitters, 2 at $5.50 per day (302 days)	3,322 00
Pipe Fitter, 1 at $5.50 per day (276 days)	1,518 00
Pipe Fitters' Helpers, 2 at $3 per day (312 days)	1,872 00
Foremen Machinists, 2 at $5 per day (312 days)	3,120 00
Machinists, 30 at $4.50 per day (312 days)	42,120 00
Machinists' Helpers, 20 at $3 per day (312 days)	18,720 00
Plumber, 1 at $5.50 per day (312 days)	1,716 00
Plumbers' Helpers, 2 at $3 per day (312 days)	1,872 00
Foreman Rigger, 1 at $4 per day (312 days)	1,248 00
Riggers, 7 at $3.50 per day (312 days)	7,644 00
Captain Pile Driver	1,650 00
General Foreman	1,800 00
Boatman, 1 at $3 per day (312 days)	936 00
Deckhand, 1 at $3 per day (312 days)	936 00
Wireman, 1 at $4.50 per day (312 days)	1,404 00
Foreman Boilermaker, 1 at $4.50 per day (312 days)	1,404 00
Boilermakers, 9 at $3.50 per day (312 days)	9,828 00
Unassigned	585 20
	$279,658 20

Wages, Temporary Employees:

Engineer (Pile Driver or Stationary), at $4.50 per day (222 days)	999 00
Stoker, at $3.50 per day (372 days)	1,302 00
Foreman Machinists, at $5 per day (200 days)	1,000 00
Machinists, at $4.50 per day (965 days)	4,342 50
Machinists' Helper, at $3 per day (926 days)	2,780 00
Foreman Boilermaker, at $4.50 per day (50 days)	225 00
Boilermaker, at $3.50 per day (515 days)	1,802 50
Foreman Blacksmith, at $5 per day (5 days)	25 00
Blacksmith, at $4.50 per day (50 days)	225 00
Blacksmiths' Helper, at $3 per day (100 days)	300 00
Foreman Ship Carpenter, at $5 per day (25 days)	125 00
Ship Carpenter, at $4 per day (150 days)	600 00
Foreman Rigger, at $4 per day (50 days)	200 00
Rigger, at $3.50 per day (300 days)	1,050 00
Dock Laborer, at $2.50 per day (200 days)	500 00
Pipe Fitter, at $5.50 per day (45 days)	247 50
Pipe Fitters' Helper, at $3 per day (50 days)	150 00
Roofer, at $4.75 per day (10 days)	47 50
Foreman Ship Caulker, at $4.50 per day (6 days)	27 00
Ship Caulker, at $4 per day (30 days)	120 00
Wood Sawyer, at $4.50 per day (5 days)	22 50
Unassigned	96 00
	$16,186 50
Total	$315,544 70

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Fire Department requesting, and report of the Comptroller relative to, the modification of Salary Schedules Nos. 960 and 968 supporting the appropriation made in the budget for the year 1911, for the said Department, providing for increases in salary of a Storekeeper from $1,500 to $1,800 per annum and of a Clerk from $1,200 to $1,500 per annum and the elimination of the position of Bookkeeper at $1,200 per annum, involving the transfer of $300:

Fire Department of The City of New York, Office of the Commissioner, July 19, 1911.

Hon. William J. Gaynor, *Mayor, and Chairman Board of Estimate and Apportionment:*

Sir—In compliance with application of this Department, an additional grade of the position of Storekeeper, with salary at the rate of $1,800 per annum, for one incumbent, has been established in this Department.

The purpose of the request was to permit of an advance from $1,500 to $1,800 per annum in the salary of the Storekeeper of this Department, payroll Bureau of Repairs and Supplies, Boroughs of Manhattan, The Bronx and Richmond.

It is also my desire to increase from $1,200 to $1,500 per annum the salary of a Clerk in the same bureau, the latter rate already existing in this Department.

To provide the funds for these purposes will necessitate revision and modification of salary schedules supporting appropriations made to this Department, Boroughs of Manhattan, The Bronx and Richmond, for the current year, entitled "960, Office of the Commissioner, Salaries," and "968, Bureau of Repairs and Supplies, Salaries"; also necessary transfer in connection therewith.

I have the honor, therefore, to request that one of the two positions of Bookkeeper at $1,200 per annum be eliminated from the first specified appropriation, and that from the $600 unaccrued balance of the salary thereof the sum of $300 be transferred to the last mentioned appropriation to pay the proposed increases for the remainder of the year from July 1, 1911. This will leave unassigned in account No. 960 the sum of $300. Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 19, 1911, the Commissioner of the Fire Department requested modification of two salary schedules supporting appropriations to his Department for 1911, involving a cash transfer of $300. In connection therewith I report as follows:

In No. 968, Bureau of Repairs and Supplies, Manhattan, The Bronx and Richmond, it is proposed to increase the compensation of Francis McCaffrey, Storekeeper, from $1,500 to $1,800 per annum, and John S. Julian, Clerk, from $1,200 to $1,500 per annum.

Mr. McCaffrey was appointed on January 3, 1900, as Assistant Storekeeper, at $1,200 per annum, and promoted to Storekeeper on May 1, 1902, at the present rate. He has charge of the departmental storehouses and the inspection of janitors' and household supplies.

Mr. Julian was appointed Clerk in the Finance Department, at $1,000 per annum, on September 11, 1899. On May 15, 1907, his compensation was increased to $1,200. On May 9, 1910, he was transferred to the Fire Department, at $1,200 per annum.

The funds for the increases are to be provided by the elimination of the position of Bookkeeper, at $1,200 per annum, in No. 960, office of the Commissioner.

The following table shows the changes in detail:

Account No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
960.	Bookkeepers, 2 at $1,200......	$1,200 00	......	$600 00	......
	Unassigned balance	......	$600 00	......	$300 00
968.	Storekeeper, 1 at $1,500.......	1,500 00	......	750 00	......
	Storekeeper, 1 at $1,800.......	......	1,800 00	......	900 00
	Clerks, 3 at $1,200...........	1,200 00	......	600 00	......
	Clerk, 1 at $1,500...........	......	1,500 00	......	750 00
		$3,900 00	$3,900 00	$1,950 00	$1,950 00

The attached resolutions, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Fire Department, for the year 1911, to take effect as of July 1, 1911, as follows:

Fire Department, Manhattan, The Bronx and Richmond.

General Administration.

Office of the Commissioner—

960. Salaries:

Commissioner	$7,500 00
Deputy Commissioner	5,000 00
Secretary to Department	4,800 00
Assistant Secretary to Department	3,500 00
Secretary to Commissioner	3,000 00
Clerk	3,000 00
Clerks, 2 at $2,400	4,800 00
Clerk	1,800 00
Clerk	1,500 00
Clerks, 2 at $900	1,800 00
Stenographer and Typewriter	1,800 00
Stenographer and Typewriter	1,350 00
Stenographers and Typewriters, 2 at $1,200	2,400 00
Bookkeeper	1,800 00
Bookkeeper	1,500 00
Bookkeeper	1,200 00
Messenger	1,200 00
Unassigned balance	600 00
	$48,550 00

Bureau of Repairs and Supplies—

968. Salaries:

Clerk	$2,100 00
Clerk	1,800 00
Clerk	1,650 00
Clerk	1,500 00
Clerks, 2 at $1,200	2,400 00
Clerks, 4 at $900	3,600 00
Stenographer and Typewriter	1,200 00
Stenographer and Typewriter	1,050 00
Storekeeper	1,800 00
	$17,100 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Fire Department for the year 1911, as follows:

From

General Administration, Manhattan, The Bronx and Richmond, Office of the Commissioner—

960. Salaries $300 00

To

General Administration, Manhattan, The Bronx and Richmond, Bureau of Repairs and Supplies—

968. Salaries $300 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following resolution from the Board of Education requesting, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen, recommending that the compensation of the

Janitors of Public Schools Nos, 114, Manhattan, and 58, Queens, Department of Education, be fixed temporarily and until further modified:

Resolved, That the Board of Estimate and Apportionment be, and it is hereby, respectfully requested to recommend to the Board of Aldermen that the compensation of Janitors of public school buildings, etc., be fixed in accordance with the following list, taking effect on the date indicated in each instance:

Changes in Compensation.

Patrick Guina, School 114, Manhattan, present compensation, $5,256, proposed compensation $5,700; taking effect July 1, 1911. (Entire building being occupied for school purposes).

Thomas J. Hendry, School 58, Queens, proposed compensation, $2,412; taking effect May 15, 1911.

True copy of resolution adopted by the Board of Education on July 12, 1911.

A. E. PALMER, Secretary, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 12, 1911, the Board of Education requested the fixation, pursuant to the provisions of section 56 of the Greater New York Charter, of the compensation of two Janitors for Public Schools Nos. 114, Manhattan, and 58, Queens.

We recommend that the request be approved by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; FRANCIS P. BENT, Acting President, Board of Aldermen; Select Committee.

The following was offered:

Whereas, By opinions of the Corporation Counsel, as of June 28, 1910, and July 30, 1910, the Comptroller was advised that the payment of salaries of Janitors in the Department of Education is illegal, unless such salary shall have been established under the provisions of section 56 of the Greater New York Charter; and

Whereas, The matter of adjusting the compensation of Janitors and the fixation of their salaries under the provisions of section 56 of the Charter is now in the hands of a Special Committee of the Board of Estimate and Apportionment; therefore, be it

Resolved, That pursuant to the provisions of section 56 of the Charter, the Board of Estimate and Apportionment hereby recommends to the Board of Aldermen pending the report of said Committee, the compensation of Janitors in the Department of Education be fixed temporarily, and until further modified, in accordance with the following list:

Janitor, with knowledge of steam heating, Public School 114, Manhattan, per annum	$5,700 00
Janitor-Engineer, Public School 58, Queens, per annum	2,412 00

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity requesting, and report of the Corporate Stock Budget Committee recommending, the issue of $40,000 corporate stock to provide for the purchase of additional land in the village of Mount Kisco, New York, for the protection of the water supply of The City of New York:

(On June 29, 1911, the request of the Commissioner of Water Supply, Gas and Electricity, for the above appropriation was referred to said Committee.)

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, June 26, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—An authorization to issue $100,000 of corporate stock was made by the Board of Estimate and Apportionment for the purpose of the acquisition of land for building sewer at Mt. Kisco. Of this amount over $70,000 has been expended for that purpose, and there is now in our hands a report of the Commissioners of

Appraisal awarding for other parcels of land about $50,000. The expenses of the Commissioners, with their compensation and the interest to be paid on the amounts of the awards, make a total of about $60,000. It will be necessary that a further authorization be made to provide for the payment of these expenses, of about $30,000.

As there is a still further report of the Commissioners to be made it will be well, I think, that the amount now authorized be $40,000, and I respectfully request that the Board of Estimate and Apportionment authorize an issue of corporate stock to that amount. Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 26, 1911, the Commissioner of Water Supply, Gas and Electricity requested the Board of Estimate and Apportionment to authorize corporate stock to the amount of $40,000, for the purchase of additional land in the village of Mount Kisco, for the protection of the water supply of The City of New York. In connection therewith we report, as follows:

Chapter 428 of the Laws of 1907 authorizes The City of New York to enter into a contract or agreement with the village of Mount Kisco, Westchester county, New York, to provide for the disposal of sewage of said village, and to acquire such lands as may be necessary in and about said village to carry into effect any agreed plan for the disposal of sewage, and to improve and protect the water supply of The City of New York within said village; provided, however, that the said land may only be taken on the consent and approval of the municipal authorities of the village.

Section 3, chapter 428, Laws of 1907, provides that the Board of Estimate and Apportionment may authorize the issue of corporate stock, without the concurrence or approval of any other board or public body, to pay any sums of money that may become due from The City of New York, under the provisions of this act.

On February 5, 1908, the Commissioner of Water Supply, Gas and Electricity transmitted to the Board of Estimate and Apportionment for its approval, a form of agreement signed by the duly authorized representative of the village of Mount Kisco, providing briefly that the City acquires certain parcels of land; that the village of Mount Kisco is to instal trunk and lateral sewers, under the inspection of representatives of The City of New York, to which all residences on the line of said sewers are required to be connected within sixty days after notice to make such connection, and to deliver the sewage of said village to The City of New York at a point designated as a pumping station, and that The City of New York will then receive the same and dispose of the sewage permanently without cost and expense to the village of Mount Kisco, all as shown on a map attached to the agreement.

On February 14, 1908, the Board of Estimate and Apportionment approved the terms of the form of agreement and authorized the Commissioner of Water Supply, Gas and Electricity to execute the same on behalf of The City of New York.

On March 20, 1908, pursuant to the terms of the agreement, the Board of Estimate and Apportionment authorized corporate stock for the purchase of certain parcels of land for the building of sewers in the village of Mount Kisco to the amount of $100,000. This account is entitled C-DW-21.

To July 15, 1911, there had been expended $81,000. The Commissioner of Water Supply, Gas and Electricity states that there is now in his hands a report of the Commissioners of Appraisal awarding about $50,000 for other parcels of land, in addition to those in the original agreement. He further states that the expenses of the Commissioners, with their compensation and interest to be paid on the amounts of the awards, will be about $10,000 more, leaving an estimated balance of $41,000 to be provided for.

We recommend the adoption of the attached resolution granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Boardc of Aldermen; GEORGE McANENY, President, Borough of Manhattan; Corporate Stock Budget Committee.

The following resolution was offered:

Resolved, That, pursuant to the provisions of chapter 428 of the Laws of 1907, and the requisition of the Commissioner of Water Supply, Gas and Electricity, under date of June 26, 1911, the Board of Estimate and Apportionment hereby approves of the issue of corporate stock of The City of New York to an amount not exceeding forty thousand dollars ($40,000), for the purpose of complying with the terms of the agreement between The City of New York and the village of Mount Kisco, approved by the Board of Estimate and Apportionment February 14, 1908, as follows:

For the purchase of twenty parcels of land, containing about 14.093 acres (shown upon map forming part of said agreement), for the building of sewers by the village of Mount Kisco	$40,000 00

—and for the purpose of providing means therefor, the Comptroller be and he is hereby authorized to issue corporate stock of The City of New York, in the manner provided by section 169 of the Greater New York Charter, to an amount not exceeding forty thousand dollars ($40,000), the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the Fire Department relative to, and report of the Select Committee, consisting of the Comptroller and the President of the Board of Aldermen recommending, the establishment in the said Department of the grades of positions of Assistant Electrical Engineer, at $3,000 for one incumbent, and Draftsman at $1,200 per annum for two incumbents:

(On May 4, 1911, the request of the Fire Commissioner for the establishment of the above grades was referred to said committee).

Fire Department of The City of New York, Office of the Commissioner, July 8, 1911.

Hon. William A. Prendergast, *Comptroller, Member of Select Committee, Board of Estimate and Apportionment:*

Sir—I beg to request your further consideration of a request of this Department, dated May 4, 1911, for the establishment of the following grades of positions:

		Per annum.
Assistant Electrical Engineer	1 at	$3,000 00
Draftsmen	2 at	1,200 00
Cable Tester	1 at	1,200 00
Cable Splicers	2 at	1,200 00

Upon report of your committee, the Board of Estimate and Apportionment at the meeting of July 6, 1911, established the grades of Cable Tester, one incumbent, and Cable Splicer, two incumbents.

The posititons of Assistant Electrical Engineer, one incumbent, and Draftsmen, two incumbents, are urgently needed for the following reasons:

There are in the telegraph system of the Borough of Brooklyn some 1,119 miles of overhead circuits and 13 miles of underground circuits, the majority of the latter having been placed during the last year. Many of these overhead circuits are carried on the elevated structures in open wires, are in poor condition, in continuous danger of interruption from third rail current and extravagant in maintenance in that the City pays to the Brooklyn Rapid Transit Company for the privilege of these connections some $7,600 annually. The number of circuits in the Borough at the present time is entirely inadequate to care for the number of fire alarm signal boxes at present in service and yet there are hundreds of applications for additional boxes, many of which are necessary for the proper protection of property. To carry these overhead circuits many pole lines are maintained by the City, which carry no other wires, and in a great many cases subways parallel these pole lines in which the wires can be placed at no expense to the City except for the necessary cable and connections from manholes to signal posts, thus placing the circuits in a much safer condition and permitting the removal of unsightly and objectionable pole lines. It is for the purpose of preparing the necessary plans and specifications for this underground work that the services of the additional employees above requested are required.

The Electrical Engineer of the Department with the assistance of an Assistant Electrical Engineer and two Draftsmen, appointed for preparing plans and specifications for a new fire alarm telegraph system in Manhattan, are devoting any available time to the preparation of specifications for placing underground cables in Brooklyn, but this work is necessarily slow on account of the time available. Furthermore, a comprehensive study should be made for a cable and box distribution for the entire Borough of Brooklyn in order that the installation of underground cable may be intelligently made.

A corporate stock issue of $100,000 was available February 28, 1905, and an additional amount of $175,000 on January 23, 1906, for placing the fire alarm telegraph conductors in the Borough of Brooklyn underground, and as up to June 3, 1910, none of this money had been used, your Board rescinded $125,000 of the amount, leaving under title of C.F.D.-22 an amount of $150,000 available. During the past year about $14,000 of this has been spent for underground work.

I presume that the reason none of this money was used for very desirable work was the reason that nobody was appointed to prepare plans and specifications, as it is a fact that there was no one available in the Bureau for such work.

Respectfully, JOS. JOHNSON, Fire Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 27, 1911, the Fire Commissioner requested the establishment in his Department, pursuant to the provisions of section 56 of the Greater New York Charter, of the following grades of positions:

Title.	Rate Per Annum.	Number of Incumbents.
Assistant Electrical Engineer	$3,000 00	1
Draftsman	1,200 00	3
Cable Tester	1,200 00	1
Cable Splicer	1,200 00	2

The incumbents of the proposed positions were to be employed on the construction of an undreground fire alarm telegraph system in the Borough of Brooklyn, and their salaries paid from a corporate stock issue of $150,000 authorized for the work. On July 6, 1911, the Board of Estimate and Apportionment approved a report of its Select Committee, recommending the establishment of the grades of positions of Cable Tester and Cable Splicer.

On July 8, 1911, the Fire Commissioner requested further consideration of his original request, stating that the services of an Assistant Electrical Engineer and two Draftsmen were necessary. The plans which have been prepared for the installation of a new fire alarm system (known as the Corty-Miller plans) are descriptive only, and working plans will be necessary before the work of the construction of an underground system in Brooklyn can be proceeded with. These plans are to be prepared by the Department. The Commissioner states that there is no force now available for the work. The Assistant Electrical Engineer is to have general supervision of the work. The two Draftsmen are to be employed in preparing maps and plans of distribution of subway system.

We recommend that the request be approved for one Assistant Electrical Engineer and two Draftsmen by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President, Board of Aldermen; Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the Fire Department of the grades of positions, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Assistant Electrical Engineer	$3,000 00	1
Draftsman	1,200 00	2

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented the following communication from the President of the Borough of Queens requesting, and report of the Select Committee, consisting of the

Comptroller and the President of the Board of Aldermen, recommending, the establishment in the office of said Borough President the position of Consulting Engineer at $6,000 per annum, for one incumbent:

(On July 20, 1911, the request of the President of the Borough of Queens for the establishment of the above position was referred to said committee.)

The City of New York, Office of the President of the Borough of Queens, Long Island City, July 19, 1911.

Hon. WILLIAM J. GAYNOR, *Mayor, Chairman Board of Estimate and Apportionment,* New York City:

Sir—Application is hereby made for resolution of your honorable Board recommending to the Board of Aldermen in accordance with section 56 of the Charter of The City of New York, the establishment of the position of Consulting Engineer, Office of the President of the Borough of Queens, at a salary of six thousand ($6,000) dollars per annum.

This position is now vacant in this office by reason of the resignation on June 30, 1910, of the late Mr. John J. McLaughlin, who was appointed in the year 1902, pursuant to the following authority, to wit:

In the Board of Aldermen.

Whereas, The Board of Estimate and Apportionment at a meeting held February 28, 1902 adopted the following resolution:

Resolved, That, pursuant to section 386, chapter 466 of the Laws of 1901, the President of the Borough of Queens is hereby authorized to employ a Consulting Engineer of Public Works at such times as the public interests may require, and at such proper compensation as the particular work upon which he is employed requires.

Resolved, That the Board of Aldermen hereby concurs in said resolution and authorizes the President of the Borough of Queens to employ a Consulting Engineer of Public Works at such times as the public interests may require and at such proper compensation as the particular work upon which he is employed requires.

Adopted by the Board of Aldermen April 1, 1902, a majority of all the members elected voting in favor thereof.

Approved by the Mayor April 14, 1902.

(Signed) P. J. SCULLY, Clerk.

The many problems arising in this Borough that require expert engineering advice and for which I have been dependent upon the Engineers in charge of the different bureaus, have become so voluminous that I have come to the conclusion that for the proper and efficient performance of the duties devolving upon me by law it is absolutely necessary to have a Consulting Engineer whose sole duties will be appropriate to his title, as many matters of importance have been delayed by reason of my having to take up the time of the Engineers in charge of the bureaus.

As you are well aware completion of the topographical map of this Borough is a tremendous proposition, street opening proceedings are augmenting every day.

The applications to the Local Board for improvements payable from assessment funds have assumed such proportions that it is a physical impossibility to promptly meet the demands of the petitioners.

The physical improvements of the highways, the construction of sewers, and the approval of the plans therefor are all matters requiring expert engineering advice, likewise, the construction of incinerating plants for the Bureau of Street Cleaning for which we have preliminary authorizations of corporate stock from your honorable Board.

Since July 1, 1910, this office has awarded contracts for work that will cost approximately $1,500,000.

The Board of Aldermen by resolution of June 20, 1911, authorized the Comptroller to issue special revenue bonds to an amount not exceeding three thousand ($3,000) dollars, proceeds whereof to be used to pay the salary of this position. This resolution which was approved by the Mayor July 5, 1911, is awaiting confirmation by your honorable Board. We enclose copy of resolution.

Respectfully, LAWRENCE GRESSER, President of the Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 19, 1911, the President of the Borough of Queens requested the establishment in his office, pursuant to the provision of section 56 of the Greater

New York Charter, of the grade of position of Consulting Engineer, at $6,000 per annum, for one incumbent. In connection therewith, we report as follows:

On February 28, 1902, the Board of Estimate and Apportionment adopted the following resolution:

Resolved, That, pursuant to section 386, chapter 466, of the Laws of 1901, the President of the Borough of Queens is hereby authorized to employ a Consulting Engineer of Public Works at such times as the public interests may require, and at such proper compensation as the particular work upon which he is employed requires.

On April 1, 1902, the resolution was concurred in by the Board of Aldermen, and on April 14, 1902, it was approved by the Mayor.

The position is now vacant by reason of the resignation, on June 30, 1910, of John J. McLoughlin, who was appointed in 1902, pursuant to the above resolution.

The action of the Board of Estimate and Apportionment and the Board of Aldermen, under the provision of section 386 of the Greater New York Charter, is not regarded as a legal establishment of the position of Consulting Engineer at $6,000 per annum. The resolution, as adopted by the two boards, did not fix any compensation. There was no establishment of position or grade as required under section 56 of the Greater New York Charter.

It is stated that the intention of the Borough President is to appoint C. L. C. Smith to this position. The President of the Borough prefers that the position be legally established under section 56. He states that he is confronted with many problems requiring expert engineering advice and that he has serious need for a Consulting Engineer.

We recommend the adoption of the attached resolution approving the request.

Respectfully, WM. A. PRENDERGAST, Comptroller; JOHN PURROY MITCHEL, President Board of Aldermen, Select Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, recommends to the Board of Aldermen the establishment in the office of the President of the Borough of Queens, of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Consulting Engineer	$6,000 00	1

Which was adopted by the following vote:

Affirmative—The Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—13.

The Secretary presented a report of the Comptroller in the matter of the request of the Fire Commissioner for approval of the specifications and estimate of cost ($1,400) for two self-propelled wagons for Chief Officers, intended for service in the Boroughs of Manhattan and Queens, and stating that no action is necessary in the premises as the proposed expenditure is a maintenance charge:

Which was ordered filed and the Secretary directed to transmit a copy thereof to the Fire Commissioner.

The Secretary presented communications, as follows:

From the Public Service Commission for the First District, requesting the Board to consent to the proposed contract between The City of New York and the Metropolitan Contracting Company for the construction of Section 5 of Route No. 5 of the proposed Lexington Avenue Rapid Transit Railroad, extending under Irving place, Gramercy Park and Lexington avenue, from East 14th street to East 26th street, Borough of Manhattan, and to authorize the issue of bonds to the amount of $2,419,127.20 for the estimated expense of executing said contract;

From the Sheriff of New York County, relative to a recent act of the Legislature increasing the salary of the Under Sheriff from $5,000 to $6,000 per annum and increasing the number of Deputy Sheriffs and Assistants to Deputy Sheriffs from twelve to fifteen and increasing the salary of the Assistants from $1,000 to $1,500 per annum.

—and

Resolutions (nine) of the Board of Aldermen, requesting issues of special revenue bonds (subdivision 8, section 188 of the Charter), for the following purposes:

A—$1,200 to provide for the compensation for overtime work during 1911, of Mechanics in the Repair Shops of the Fire Department.

B—$10,000 to provide for the maintenance expenses during the remainder of the year 1911 of the New York Public Library, under the jurisdiction of the Department of Parks, Boroughs of Manhattan and Richmond.

C—$1,021.92 to provide for the increase in the salary of the Secretary to the Armory Board from June 27, 1911.

D—$5,000 to provide for the compensation of special Measurers hired by the Commissioner of Weights and Measures.

E—$1,000 to provide for the salary for the remainder of the year 1911 of a Bond Clerk in the office of the District Attorney of Kings County.

F—$2,000 to provide for the restoration of the Heine monument at the entrance to the Grand Boulevard and Concourse at 161st street, The Bronx, under the jurisdiction of the President of The Bronx.

G—$100,575 to provide for the purchase by the Department of Street Cleaning of 270 draft horses and 30 driving horses.

H—$200,133 to provide for the installation of fire alarm systems, up-to-date fire escapes, stand pipes, hose and other necessary equipment in all hospitals and buildings under the jurisdiction of the Department of Public Charities.

I—$600 to provide for the salary of an Automobile Engineman in the Bureau of Weights and Measures, Mayor's Office, for the remainder of the year 1911.

Which were referred to the Comptroller.

The Secretary presented a communication from Charles T. Carroll, 373 Fulton street, Brooklyn, offering to sell to the City for the sum of $5,000, premises 239 and 241 Green street, Brooklyn, for hospital purposes.

Which was referred to the Commissioner of Public Charities.

The Secretary presented a report of the Comptroller recommending the issue of $6,065.51 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the salaries of two Pathologists from July 1 to December 31, 1911, at $1,500 each per annum, and for increases in wages of Deckhands from $500 to $720 per annum, from May 17 to December 31, 1911, and of Steamfitters from $5 to $5.50 a day from March 15 to December 31, 1911, Department of Public Charities; also recommending approval of a schedule for the fund.

Which was laid over one week, August 3, 1911.

(On July 6, 1911, the resolution of the Board of Aldermen requesting the above appropriation was referred to the Comptroller.)

(On July 17, 1911, the above matter was laid over to July 27, 1911.)

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of $8,225 special revenue bonds to provide for the employment of ten additional Inspectors and two additional Clerks from June 1, 1911, in the Bureau of Buildings, Borough of Queens, together with a report of the Budget Committee, recommending an issue of $3,000 for the employment of six Building Inspectors at the rate of $1,200 per annum, from August 1 to December 31, 1911, and also recommending approval of a schedule for said fund:

(On May 25, 1911, the resolution of the Board of Aldermen, above mentioned, was referred to the Comptroller.)

(On July 6, 1911, the report of the Comptroller, recommending that no action be taken on the request and that the Borough President be advised to make application for the additional force in the Budget estimate for his office for the year 1912, was referred to the above Committee.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of eight thousand two hundred and twenty-five dollars ($8,225), the proceeds whereof to be used by the President of the Borough of Queens for the purpose of employing in the Bureau of Buildings ten additional Building Inspectors at the rate of $1,200 per annum for seven months, from June 1, 1911=$7,000, and two additional Clerks, at the rate of $1,050 per annum for seven months, from June 1, 1911=$1,225.

Adopted by the Board of Aldermen May 2, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor May 10, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 17, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On May 2, 1911, the Board of Aldermen adopted a resolution requesting $8,225 in special revenue bonds to be used by the President of the Borough of Queens for the employment in the Bureau of Buildings of 10 additional Building Inspectors at $1,200 per annum, and two additional Clerks, at $1,050 per annum for seven months, from June 1, 1911.

At the present time the inspection work in the Bureau of Buildings is done by 1 Chief Inspector, 1 Steel and Iron Inspector, 9 Construction Inspectors and 5 Plumbing Inspectors. The territory covered by these men is approximately 128 square miles, and each construction inspector covers a district of approximately 15 square miles, each plumbing inspector covers a district of approximately 25 square miles and the steel and iron inspector, the entire Borough of Queens.

The number of new buildings started during the year 1910 was 4,138, the estimated cost of which was $15,144,377, and of this number 2,259 were started during the first six months of that year at an estimated cost of $7,549,837.

The records of the office show that during the first six months of 1911, 3,005 new buildings have been started at an estimate of cost of $12,675,210, or an increase in the number of new buildings of 746 in the first six months of 1911 over the corresponding period of 1910.

There were also issued 1,212 permits during 1910 for alterations, at an estimate of cost $895,804; 636 of which at an estimate of cost of $462,447 were issued during the first six months of the year. During the first six months of 1911, 637 permits were issued for alteration work at an estimate of cost of $406,624.

In addition to the above, the Bureau of Buildings also make inspections of buildings against which complaints have been made by the Fire Department and the Tenement House Department. Inspections of moving picture shows and all common shows and buildings used for concerts are also made prior to the issuing of permits by the Bureau of Licenses and the Police Department.

It will be seen from the above figures that the number of new building permits filed during the first six months of the year 1910 equalled 54 6-10 per cent. of the number filed during the entire year. If this proportion should hold good for the year 1911, 5.504 permits will have been filed during the year 1911, or an increase of 1,366 new building permits over the number 1910.

The number of alterations during 1911 should remain about the same as 1910.

It is claimed that even during 1910 there was not a sufficient number of inspectors employed to properly supervise the work assigned to them. Each inspector had between 300 and 500 building permits in his district to examine at this time and it is stated that it takes between two and three weeks for each man to make a circuit of his district.

An adequate inspection of the construction of buildings should be made, and, while the present force can cover all the territory, there is no assurance that they can do the work in a satisfactory manner. A thorough investigation has convinced us that the force should be increased in order to make sure of adequate inspection. However, the figures do not justify an addition of ten Inspectors. We believe that six new men would be sufficient, and that three of them should be Construction Inspectors, two Plumbing Inspectors, and 1 Steel and Iron Inspector.

Therefore, we submit for adoption the following resolution granting the request to the extent of $3,000 special revenue bonds to provide for the employment of six additional Building Inspectors at $1,200 per annum for five months to date from August 1, 1911, and approving a schedule for the fund.

Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Borough of Manhattan; JOHN PURROY MITCHEL, President, Board of Aldermen; Budget Committee.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on May 2, 1911, requesting an issue of special revenue bonds in the sum of Eight Thousand, Two Hundred and Twenty-five ($8,225), the proceeds whereof to be used by the President of the Borough of Queens for the employment in the Bureau of Buildings of 10 additional Building Inspectors, at $1,200 per annum, and two additional Clerks, at $1,050 per annum, for seven months, from June 1, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of Three Thousand Dollars ($3,000), for the employment of 6 Building Inspectors at $1,200 per annum, and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding Three Thousand Dollars ($3,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules of salaries paid from other than budget funds in the office of the President of the Borough of Queens for the year 1911, to take effect August 1, as follows:

President, Borough of Queens; Bureau of Buildings—Inspection and Field Force—Salaries.

Revenue Bond Force.

Building Inspectors, 6 at $1,200 per annum.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Corporate Stock Budget Committee to the President of the Borough of Queens and to the Board of Aldermen.

The Secretary presented the following report of the Comptroller certifying the claim of the Excello Paint and Oil Company, pursuant to section 246 of the Charter, in the sum of $3,243.67 for oil and other supplies delivered for use by the Department of Water Supply, Gas and Electricity:

City of New York, Department of Finance, July 24, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I transmit herewith report of the Division of Law and Adjustment of this Department on the petition of the Excello Paint and Oil Company for a consideration of their claim under section 246 of the Charter, together with the papers in the matter.

Will you kindly arrange to have this on the calendar of the Board of Estimate for the meeting of July 27, 1911

Yours truly, WM. A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—Under and pursuant to the provisions of section 246 of the Charter, I hereby certify that a claim has been presented by the Excello Paint and Oil Company for $4,901.08, alleged to be due for oil and other supplies delivered for use by the Department of Water Supply, Gas and Electricity; that such claim, according to the opinion of Acting Corporation Counsel G. L. Sterling, is illegal and invalid as against The City of New York, but, notwithstanding, in my judgment, it is equitable and proper for the City to pay a portion of said sum inasmuch as the City has received value for the same, and that $3,243.67 is the amount which should be paid in full satisfaction of the said claim.

Respectfully, WM. A. PRENDERGAST, Comptroller.

City of New York, Department of Finance, Comptroller's Office, July 24, 1911.

In the matter of the application made by the Excello Paint and Oil Company for the adjustment by the Board of Estimate and Apportionment, under section 246 of the Charter, of its claim for $4,901.08, alleged to be due for goods sold and delivered for use by the Department of Water Supply, Gas and Electricity.

Hon. William A. Prendergast, *Comptroller:*

Sir—The Excello Paint and Oil Company asks for the adjustment by the Board of Estimate and Apportionment, under section 246 of the Charter, of its claim for $4,901.08, alleged to be due for goods sold and delivered for use by the Department of Water Supply, Gas and Electricity. The items claimed are as follows:

1909, January 30	$400 00
1909, January 30	400 00

1909, February 10-17	461 00
1909, March 1	628 00
1909, March 18	154 20
1909, March 18	63 95
1909, March 30	827 46
1909, April 2	52 00
1909, April 21	188 75
1909, May 18	210 00
1909, June 15	20 41
1909, June 16	143 75
1909, June 24	66 65
1909, July 22	53 30
1909, July 2	76 20
1909, August 4	93 50
1909, August 15	60 40
1909, August 16	174 53
1909, September 13	32 40
1909, September 27	48 00
1909, October 18	33 80
1909, October 20	143 38
1909, October 20-21	70 15
1909, October 23	107 80
1909, November 1	300 30
1909, November 9	13 75
1909, November 10	57 40
1909, November 17	20 00

Upon investigation it appears that the above mentioned charge of $461 was paid by Voucher No. 34410, C. O. P. of 1909. This item, therefore, must be eliminated.

Twenty-five vouchers, including the above-mentioned charges, have been prepared and transmitted to this Department for payment. Following is a statement showing the numbers of the vouchers, the dates of the orders, the dates of the bills rendered and the amounts of the vouchers:

Voucher No.	Date of Order.	Date of Bill Rendered.	Amount of Voucher.
6032	Jan. 29, 1909	Feb. 5, 1909	$400 00
6031	Jan. 29, 1909	Feb. 5, 1909	400 00
1498	Apr. 2, 1909	Apr. 2, 1909	782 20
1277	Mar. 1, 1909	Mar. 18, 1909	63 95
1497	Apr. 2, 1909	Apr. 2, 1909	879 46
1533	Apr. 13, 1909	Apr. 21, 1909	188 75
4838	Apr. 19, 1909	May 18, 1909	210 00
4770	Sept. 27, 1909	Sept. 27, 1909	20 41
2970	June 11, 1909	June 16, 1909	241 35
6205	June 18, 1909	June 24, 1909	56 65
4368	June 26, 1909	July 22, 1909	53 30
4772	July 8, 1909	July 2, 1909	76 20
3597	Sept. 11, 1909	Sept. 16, 1909	93 50
4771	Aug. 17, 1909	Aug. 16, 1909	60 40
4734	Aug. 11, 1909	Oct. 10, 1909	172 64
3762	Sept. 9, 1909	Sept. 13, 1909	32 40
3717	Sept. 24, 1909	Sept. 27, 1909	48 00
4211	Oct. 13, 1909	Oct. 18, 1909	33 80
4196	Oct. 18, 1909	Oct. 20, 1909	143 38
4195	Oct. 18, 1909	Oct. 20-21, 1909	70 15
4192	Oct. 21, 1909	Oct. 23, 1909	107 80
4681	Oct. 13, 1909	Nov. 1, 1909	300 30
4440	Nov. 6, 1909	Nov. 9, 1909	13 75
4679	Nov. 6, 1909	Nov. 10, 1909	57 40
4533	Nov. 13, 1909	Nov. 17, 1909	20 00
			$4,525 79

To each of these vouchers was attached an order with a certificate of necessity, with two exceptions bearing date prior to the delivery of the supplies. Voucher No. 4772 had attached an order dated July 8, 1909, but the bill attached was dated July 2,

1909. Voucher No. 4771 had attached an order dated August 17, 1909, but the bill attached was dated August 16, 1909.

The circumstances attending the issuing of these orders are explained in a letter dated October 14, 1909, received from M. F. Loughman, Deputy Commissioner of Water Supply, Gas and Electricity, in which he stated "Replying to your letters of August 23 and 26 in connection with the purchase of paints, oils, etc., from the Excello Paint and Oil Company in an amount exceeding $1,000, at the time of the purchase of the supplies in the amounts stated in the above claim there was no contract in existence. The Department had drafted a proposed form of contract without determining the quantity to be delivered, but the Corporation Counsel would not approve same. Another form was prepared, and after the award of the contract it was discovered that it was defective and all bids had to be rejected. There is another form or proposed form of contract in the hands of the printer which will soon be advertised. The oils which were purchased were absolutely necessary for the operation of the pumps in the several stations."

Herewith transmitted is a report, dated January 23, 1911, made by Inspector A. H. Witschieben, of the Division of Inspection of this Department, in which he stated:

"I have carefully gone over the claims and the reports made on some of them and respectfully recommend that deductions on the following claims for oils, etc., be made for the reasons hereinafter stated:

Voucher No. 1498—Bill Dated April 2, 1909—	
1,256 gallons cylinder oil, at 50 cents	$628 20
Recommended deduction 10 cents per gallon, or	125 60
Voucher No. 1497—Bill Dated April 2, 1909—	
1,247½ gallons cylinder oil, at 50 cents	623 75
Recommended deduction of 10 cents per gallon, or	124 75
Voucher No. 3717—Bill Dated September 27, 1909—	
60 gallons Excellorine Disinfectant, at 80 cents	48 00
Recommended deduction of 15 cents per gallon, or	9 00
Voucher No. 6205—Bill Dated June 24, 1909—	
54 gallons linseed oil, at 61 cents	32 94
Recommended deduction of 21 cents per gallon, or	11 34
47¾ gallons machine oil, at 35 cents	16 71
Recommended deduction of 7½ cents per gallon, or	3 58
Voucher No. 1533—Bill Dated April 21, 1909—	
151 gallons yellow paint, at $1.25	188 75
Recommended deduction of 10 cents per gallon, or	15 10
Voucher No. 3763—Bill Dated September 13, 1909—	
54 gallons auto oil, at 60 cents	32 40
Recommended deduction of 10 cents per gallon, or	8 10

RECAPITULATON.

Voucher.	Amount.	Deduction.	Net Amount.
1498	$782 20	$125 60	$656 60
1497	879 46	124 75	754 71
3717	48 00	9 00	39 00
6205	56 65	14 92	41 73
1533	188 75	15 10	173 65
3762	32 40	8 10	24 30
	$1,987 46	$297 47	*$1,589 99

"The above deductions on oil, etc., supplied on these vouchers are recommended for the following reasons:

"Cylinder Oil—Charged at 50 cents and allowed 40 cents per gallon.

"When bids on this oil were opened on June 23, 1909, the claimants bid 43 cents per gallon, as against 29 cents, next highest, and 19 cents, the lowest.

"These bids were rejected, and on August 18, 1909, new bids were opened and the award was made to the claimants at 10 cents per gallon, next lowest bidder being 22 cents and highest 29 cents. This item was part of a large lot of supplies, and although everything else was delivered no cylinder oil was furnished at the price quoted.

---

*Should be $1,689.99.

"The bids made by claimant would seem to indicate that 50 cents is an excessive price and I have recommended deduction accordingly.

"A peculiar part of this transaction which would seem to point conclusively to collusion in this matter is the fact that on August 5, 1909, the Department of Water Supply, Gas and Electricity placed three orders with claimants for a total of 5,020½ gallons of cylinder oil at 50 cents per gallon, all of which was supposed to be an 'emergency' case.

"The 'emergency' evidently consisted of getting a big enough stock on hand to preclude the necessity of claimants having to furnish any at the new contract price of 10 cents per gallon. If it can be legally done I would recommend that a deduction of 10 cents per gallon on this lot be made from the total amount of the pending claims.

"Excellorine Disinfectant. Reduction to 65 cents was recommended to conform to the highest price allowed by Comptroller Metz for disinfectants.

"Linseed Oil. Reduction to 40 cents was recommended to conform to the price previously accepted by claimants for linseed oil, it being of inferior grade.

"Machine Oil. Reduction to 27½ cents was recommended to conform to price charged on bill of November 9, 1909.

"Yellow Paint. Reduction to $1.15 per gallon was recommended to conform to the price previously accepted by claimants for similar paint.

"Automobile Oil. Reduction to 50 cents per gallon was recommended to conform to the price of Havoline Oil, which was called for in order.

"In addition to above claims for supplies on which excessive charges are noted, the following claims for work done, etc., appear to be excessive. (See report of Mr. McDermott herewith attached).

Voucher.	Amount.	Deduction.	Net Amount.
6032	$400 00	$100 00	$300 00
6031	400 00	100 00	300 00
4838	210 00	85 00	125 00
	$110 00	$285 00	$725 00

"In addition to these amounts Voucher No. 1510, for $210, for work done at the Oliver Street Station, has been paid, but the price charged was found to be excessive to the amount of $100. If it can be legally done I would recommend that this amount be deducted from the total amount of the attached claims.

"I recommend that the following vouchers be paid in full, as the prices charged on same appear to be reasonable:

No.		No.	
1277	$63 95	4681	$300 30
4770	20 41	4679	57 40
4368	53 30	4533	20 00
4772	76 20	4440	13 75
4771	60 40	4196	143 38
4734	172 64	3597	93 50
4211	33 80	2970	143 75
4195	70 15		
4192	107 80		$1,430 73

There are twenty-five vouchers in the lot submitted to me, amounting to a total of	*$4,428 29
Total deduction recommended on these claims	582 47
	†$3,845 82

"From this amount I recommended the additional deduction of $602.05, for overcharged on vouchers previously paid. This will bring the net amount down to $3,243.77."

Examiner Peter S. Doring, of the Division of Law and Adjustment of this Department, submits the following statement showing each item charged, the amounts of the vouchers and the various deductions recommended to be made:

---

*Should be $4,428.19.

†Should be $3,845.72.

	Department Order No.	Requisition No.	Date of Bill.	Amount of Bill.	Department Voucher No.	Deductions.	Amount Recommended.	Remarks.
Furnishing labor, materials, etc., at Gansevoort Pumping Station	122	4992	Feb. 5, 1909	$400 00	6032	$100 00	$300 00	
Furnishing labor, materials, etc., at South Street Pumping Station	121	4991	Feb. 5, 1909	400 00	6031	100 00	300 00	
Supplies at West End, High Bridge	300	5032	Feb. 10-17, 1909	461 00	....	461 00	....	This voucher was paid, No. 34410A, C. O. P. of 1909.
Supplies at Ridgewood Pumping Station	1384	6055	Apr. 2, 1909	628 00 154 20	1498	125 60	645 60	
Supplies at Purdys Station, Westchester County	811	5544	Mar. 18, 1909	63 95	1277	....	63 95	
Supplies at Ridgewood Pumping Station	1397	6056	Apr. 2, 1909	827 46 52 00	1497	124 75	754 71	
Supplies at Aqueduct at Ossining, N. Y.	1490	6149	Apr. 21, 1909	188 75	1533	15 10	173 65	
Labor and materials at high pressure station at Gansevoort street	1510	6206	May 18, 1909	210 00	4838	85 00	125 00	Adverse report recommending a reduction of $85.
Supplies at 98th Street Pumping Station	3849	8624	Sept. 27, 1909	20 41	4770	....	20 41	
Supplies at Rockville Centre, L. I.	2339	6986	June 16, 1909	143 75	2970	....	143 75	Voucher drawn for $241.35, of which $97.60 for supplies has been withdrawn
Supplies at Aqueduct, Croton Lake, N. Y.	2433	7144	June 24, 1909	66 65	6205	10 00 14 92	41 73	$10 deduction on bill made by Department of Water Supply, Gas and Electricity, on bill, $66.65.
Supplies at Patrol Boat "Anistam"	2534	7262	July 22, 1909	53 30	4368	....	53 30	
Supplies at pumping station, 207th street and Jerome avenue	2797	7518	July 2, 1909	76 20	4772	....	76 20	
Supplies at pumping station, 179th street, New York	3720	8226	Sept. 16, 1909	93 50	3597	....	93 50	
Supplies at pumping station, 172d street, High Bridge	3381	8022	Aug. 16, 1909	60 40	4771	....	60 40	
Supplies at pipe yard, East 24th street	3340	8047	Oct. 10, 1909	174 53	4734	1 89	172 64	Error in amount as appears in application, $174.53.
Supplies at Ridgewood Pumping Station	3752	8204	Sept. 13, 1909	32 40	3762	8 10	24 30	Deduction recommended as over-overcharge.
Supplies at 179th Street Pumping Station	3836	8505	Sept. 27, 1909	48 00	3717	9 00	39 00	
Supplies at corporation yard, Long Island City	4207	8919	Oct. 18, 1909	33 80	4211	....	33 80	
Supplies at 179th Street Pumping Station	4223	8954	Oct. 20, 1909	143 38	4196	....	143 38	
Supplies at 179th Street Pumping Station	4225	8956	Oct. 20-21, 1909	70 15	4195	....	70 15	
Supplies at 179th Street Pumping Station	4282	9004	Oct. 23, 1909	107 80	4192	....	107 80	
Supplies at Carmel, Purdy Station and Valhalla	4186	8890	Nov. 1, 1909	300 30	4681	....	300 30	
Supplies at Carmel, N. Y.	4640	9303	Nov. 9, 1909	13 75	4440	....	13 75	
Supplies at Croton Lake, Ossining, etc	4639	9304	Nov. 10, 1909	57 40	4697	....	57 40	
Supplies at South Street Pumping Station	4683	9407	Nov. 17, 1909	20 00	4533	....	20 00	
				$4,901 08		$1,055 36	$3,845 72	
							602 05	Deduction recommended as per report of Inspector A. H. Witschieben.
							$3,243 67	

On the 23d of December, 1909, a report was made by me upon the application of the claimant for the adjustment by the Board of Estimate and Apportionment, under Section 246 of the Charter, of its claims for $8,211.31 and $2,045.60, for similar supplies furnished, including certain of the items now under consideration. The said report was transmitted to the Corporation Counsel, with a request for his advice as to whether or not the said claims were a proper subject for adjustment under the said enactment.

In reply to such request, a communication, dated December 28, 1909, was received from Acting Corporation Counsel G. L. Sterling, in which he stated in part: "Since the value of the supplies furnished by these claimants to the Department of Water Supply far exceeding the sum of $1,000, it is clear upon the facts disclosed in the auditor's report, as well as in the Deputy Comptroller's letter to this office, dated September 11, 1909, that the claims could not be enforced in an action at law, and that the City could, if it so desired, refuse to make compensation to the claimants for the benefits derived through the irregular procedure pursued by them and by the Commissioner of Water Supply. Chapter 601 of the Laws of 1907 vests the Board of Estimate and Apportionment with power, in its discretion, to pay claims which are unenforcible for reasons of technical illegality in procedures when such claims are certified as just and reasonable by the Comptroller. If you are satisfied that by reason of the delivery of paint and oil by these claimants to the Department of Water Supply, that Department, and consequently the City, have derived a benefit, and that there is a moral obligation upon the City to pay these debts, then I advise you that you may certify the claims to the Board of Estimate and that Board may direct payment in the amount prescribed by Chapter 601 of the Laws of 1907."

In accordance with the opinion of the Acting Corporation Counsel, such of the vouchers in respect to which there was no dispute were certified by Comptroller Herman A. Metz for adjustment by the Board of Estimate and Apportionment. Payment was accordingly made to the claimant of the aggregate of $5,055.54. None of the charges now under consideration was included in such adjustment.

It would appear from the foregoing that the considerations which were stated by the Acting Corporation Counsel to justify action by the Board of Estimate and Apportionment, apply equally well to the claims now presented, inasmuch as the City has received value for the same. In view of the fact that equitable relief is demanded by the claimant it seems to be just that the sum of $602.05, overpayment made on previous vouchers, be deducted from the amounts now found to be payable upon the present adjustment.

It is, therefore, respectfully recommended that the certificate prescribed in Section 246 of the Charter as a requisite for action by the Board of Estimate and Apportionment be issued in favor of the claimant for the payment of the vouchers enumerated in the following table in the amounts stated to be due

Voucher Numbers.	Date of Orders.	Date of Bills Rendered.	Accounts of the Vouchers.	Deductions	Amounts Recommended for Payment.
6032	Jan. 29, 1909	Feb. 5, 1909	$400 00	$100 00	$300 00
6031	Jan. 29, 1909	Feb 5, 1909	400 00	100 00	300 00
1498	Apr. 2, 1909	Apr 2, 1909	782 20	125 60	656 60
1277	Mar. 1, 1909	Mar. 18, 1909	63 95	....	63 95
1497	Apr. 2, 1909	Apr. 2, 1909	879 46	124 75 602 05	152 66
1533	Apr. 13, 1909	Apr. 21, 1909	188 75	15 10	173 65
4838	Apr. 19, 1909	May 18, 1909	210 00	85 00	125 00
4770	Sept. 27, 1909	Sept. 27, 1909	20 41	....	20 41
6205	June 18, 1909	June 24, 1909	56 65	14 92	41 73
2970	June 11, 1909	June 16, 1909	241 35	97 60	143 75
4368	June 26, 1909	July 22, 1909	53 30	....	53 30
4772	July 8, 1909	July 2, 1909	76 20	....	76 20
3597	Sept. 11, 1909	Sept. 16, 1909	93 50	....	93 50
4771	Aug. 17, 1909	Aug. 16, 1909	60 40	....	60 40
4734	Aug. 11, 1909	Oct. 10, 1909	172 64	....	172 64
3762	Sept. 9, 1909	Sept. 13, 1909	32 40	8 10	24 30
3717	Sept. 24, 1909	Sept. 27, 1909	48 00	9 00	39 00
4211	Oct. 13, 1909	Oct. 18, 1909	33 80	....	33 80
4196	Oct. 18, 1909	Oct. 20, 1909	143 38	....	143 38
4195	Oct. 18, 1909	Oct. 20-21, 1909	70 15	....	70 15

Voucher Numbers.	Date of Orders.	Date of Bills Rendered.	Accounts of the Vouchers.	Deductions.	Amounts Recommended for Payment.
4192	Oct. 21, 1909	Oct. 23, 1909	107 80	....	107 80
4681	Oct. 13, 1909	Nov. 1, 1909	300 30	....	300 30
4679	Nov. 6, 1909	Nov. 10, 1909	57 40	....	57 40
4440	Nov. 6, 1909	Nov. 9, 1909	13 75	....	13 75
4533	Nov. 13, 1909	Nov. 17, 1909	20 00	....	20 00
			$4,525 79		$3,243 67

Respectfully, JOS. L. HANCE, Auditor of Accounts.

Approved: Albert E. Haddock, Chief, Division of Law and Adjustment.
Approved: Wm. A. Prendergast, Comptroller.

The following resolution was offered:

Resolved, That, pursuant to section 246 of the Charter, the Board of Estimate and Apportionment hereby determines that the City has received a benefit from the Excello Paint and Oil Company and is justly and equitably obligated to pay to it, without interest, the sum of $3,243.67 for oil and other material supplied for the use of the Department of Water Supply, Gas and Electricity; that the said sum shall be paid in full satisfaction of twenty-five vouchers aggregating $4,525.79, prepared in the said Department and transmitted to the Department of Finance for payment, and shall be paid only upon the execution by the Excello Paint and Oil Company for a full release in favor of the City in such form as shall be approved by the Corporation Counsel; that the numbers of the vouchers, the amounts of the vouchers and the amounts to be paid thereon, are as follows:

Voucher Numbers.	Amounts of Vouchers.	Amounts Recommended for Payment.
6032	$400 00	$300 00
6031	400 00	300 00
1498	782 20	656 60
1277	63 95	63 95
1497	879 46	152 66
1533	188 75	173 65
4838	210 00	125 00
4770	20 41	20 41
6205	56 65	41 73
2970	241 35	143 75
4368	53 30	53 30
4772	76 20	76 20
3597	93 50	93 50
4771	60 40	60 40
4734	172 64	172 64
3762	32 40	24 30
3717	48 00	39 00
4211	33 80	33 80
4196	143 38	143 38
4195	70 15	70 15
4192	107 80	107 80
4681	300 30	300 30
4679	57 40	57 40
4440	13 75	13 75
4533	20 00	20 00
	$4,525 79	$3,243 67

—and that the said sums be paid out of the funds indicated on the vouchers.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Public Charities, and report of the Comptroller relative to, the authorization of an issue of $500 special revenue bonds (subdivision 8, section 188 of the Charter), in addition to the amount of $11,520 authorized on July 13, 1911, to provide for the salaries of help in the Central Office, Manhattan, the Kings County Hospital, New York City Home for Aged and Infirm (Brooklyn Division) and the Cumberland Street Hospital, Department of Public Charities, from July 1 to December 31, 1911, and approval of a schedule for the fund:

(The above appropriation is to provide for the increase in salary of the General Medical Superintendent at the Kings County Hospital from $5,000 to $6,000 per annum.)

(The resolution of the Board of Aldermen requesting the issue of $12,020 special revenue bonds for the above purpose, and report of the Comptroller relative thereto, is printed in the Financial Minutes of the meeting held July 13, 1911, at page 1818 of the City Record.)

Department of Public Charities of The City of New York, Foot of East 26th Street, May 23, 1911.

To the Honorable, the Board of Aldermen:

Gentlemen—We would respectfully request that special revenue bonds to the amount of twelve thousand and twenty dollars ($12,020) be issued to pay the salaries of the following help from July 1, at the Central Office, Manhattan; Kings County Hospital, Home for the Aged and Infirm, and Cumberland Street Hospital, Brooklyn, so that the efficiency of the Department may be increased and that the patients may receive the best care and attention, in order that they may be quickly cured and returned to their homes as speedily as possible to support their families, and, at the same time, relieve the City of their care:

Central Office, Manhattan.		
One (1) General Medical Superintendent of the Department of Public Charities, at $6,000 per annum (increased from $5,000 to $6,000)......		$500 00
Kings County Hospital.		
Seven (7) Trained Nurses, from $600 to $750 per annum each..	$525 00	
Ten (10) Trained Nurses, additional, at $600 per annum each..	3,000 00	
Twenty (20) Hospital Helpers (male), at $300 per annum each	3,000 00	
Twenty (20) Hospital Helpers (female), at $240 per annum each	2,400 00	
		9,425 00
New York City Home for the Aged and Infirm (Brooklyn Division).		
One (1) Trained Nurse, $600 to $750 per annum...............	$75 00	
Six (6) Hospital Helpers (male), at $300 per annum each.....	900 00	
Six (6) Hospital Helpers (female, at $240 per annum each.....	720 00	
		1,695 00
Cumberland Street Hospital.		
One (1) Deputy Medical Superintendent, at $1,800 per annum............		900 00
		$12,020 00

Respectfully yours, M. J. DRUMMOND, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 24, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 13, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds in the sum of $12,020, the proceeds to be used by the Department of Charities for the payment of salaries in several divisions of the Department from July 1 to December 31, 1911.

A partial report upon the request, recommending concurrence to the extent of $11,520, was approved by this Board on July 13, 1911. Action upon the request for funds to provide for an increase of the salary of a General Medical Superintendent from $5,000 to $6,000 per annum was withheld until the $6,000 rate should be established pursuant to the provisions of section 56 of the Greater New York Charter. The $6,000 rate has since been established.

It is proposed to promote to the new grade Dr. John F. Fitz Gerald, General Medical Superintendent of the Kings County Hospital. In 1886 and 1887 Dr. Fitz Gerald was with St. Peter's Hospital, Albany, N. Y.; from 1887 to 1894 he was Assistant and First Assistant Physician in the State Insane Asylum, Binghamton, N. Y., and from 1894 to 1902 he was Superintendent of the State Custodial Asylum, Rome, N. Y. On December 10, 1902, he was appointed General Medical Superintendent at Kings County Hospital, at $5,000 per annum, his present salary.

The attached resolutions, if adopted, will grant the request and approve a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 13, 1911, requesting an issue of special revenue bonds in the sum of twelve thousand and twenty dollars ($12,020), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries of help in the Central Office, Manhattan, Kings County Hospital, New York City Home for the Aged and Infirm (Brooklyn Division), and the Cumberland Street Hospital from July 1 to December 31, 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of five hundred dollars ($500), in addition to the amount of eleven thousand five hundred and twenty dollars ($11,520), heretofore authorized, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five hundred dollars ($500), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the Department of Public Charities for the year 1911, to take effect as of July 1, 1911, as follows:

Department of Public Charities.

Institutions, Brooklyn and Queens, Kings County Hospital—

Salary increase, to be paid from special revenue bonds, General Medical Superintendent, from $5,000 to $6,000 per annum	$1,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of $200 (subdivision 8, section 188, of the Charter), to be used by the Commissioner of Parks, Borough of The Bronx, for the purpose of placing fire escapes on "Turnbull Mansion," at Bartow-on-the-Sound, together with a report of the Comptroller, recommending the approval of said request:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of two hundred dollars ($200), the proceeds whereof to be used by the Commissioner of Parks, Borough of The Bronx, for the purpose of placing fire-escapes on "Turnbull Mansion" at Bartow-on-the-Sound.

Adopted by the Board of Aldermen June 20, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 5, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a resolution adopted by the Board of Aldermen on June 20, 1911, requesting $200 in special revenue bonds. to be used by the Commissioner of Parks, Borough of The Bronx, for the purpose of placing fire escapes on the "Turnbull Mansion," at Bartow-on-the-Sound, I report as follows:

The "Turnbull Mansion" is used during the summer as a home for crippled children by the Home and School for Crippled Children. It has a daily attendance of forty children, who are cared for wholly at the expense of the school.

The Bureau of Buildings has ordered that fire escapes be placed on the building for the protection of the children. Representatives of the school state that they cannot afford to spend the $200 necessary for the improvement, and request the City to provide for the same.

The Commissioner of Parks, Borough of The Bronx, states that the fire escapes are necessary, and that he is in favor of an allowance for the purpose.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on June 20, 1911, requesting an issue of special revenue bonds in the sum of two hundred dollars ($200), the proceeds whereof to be used by the Commissioner of Parks, Borough of The Bronx, for the purpose of placing fire escapes on "Turnbull Mansion," at Bartow-on-the-Sound, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two hundred dollars ($200), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of $3,300 special revenue bonds (subdivision 8, section 188 of the Charter), to be used by the Municipal Civil Service Commission for paying salaries of two Investigators, at $1,500 each per annum, and installing fireproof safe, $1,500, and salary of one first grade Clerk, together with a report of the Comptroller, recommending the approval of said request and a schedule for the fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of three thousand three hundred dollars ($3,300), the proceeds whereof to be used by the Municipal Civil Service Commission for the purpose of paying salaries of two Investigators, at $1,500 each per annum, installing fireproof safes, $1,500, and salary of one first grade Clerk, $300.

Adopted by the Board of Aldermen July 11, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor July 25, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—In reference to a resolution adopted by the Board of Aldermen on July 11, 1911, requesting special revenue bonds to the amount of $3,300, the proceeds to be used by the Municipal Civil Service Commission for the purpose of paying salaries of two Investigators at $1,500 each per annum; installing fireproof safes, $1,500, and salary of one First Grade Clerk, $300, I report as follows:

It is stated that the fireproof safes are necessary for the records of the Commission. At present the records are filed in wooden boxes and as they are of great value, the loss in case of a fire would seriously hamper the proper administration of the office.

The position of Investigator at the $1,500 rate for two incumbents was established by the Board of Aldermen on July 3, 1911. The sum of $1,375 will be necessary for the salaries of the two Investigators and the $300 Clerk from August 1 to December 31, 1911, making the total amount required, including the $1,500 for safes, $2,875.

I recommend the adoption of the attached resolutions concurring in the resolution to the extent of $2,875, and approving a schedule for the payment of salaries.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 11, 1911, requesting an issue of special revenue bonds in the sum of three thousand three hundred dollars ($3,300), the proceeds whereof to be used by the Municipal Civil Service Commission for the purpose of paying salaries of two Investigators at $1,500 each per annum, installing fireproof safes, $1,500, and salary of one First Grade Clerk, $300, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of two thousand eight hundred and seventy-five dollars ($2,875); one thousand three hundred and seventy-five dollars ($1,375) to be applied to the payment of salaries, and one thousand five hundred dollars ($1,500) for the purpose of installing fireproof safes, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two thousand eight hundred and seventy-five dollars ($2,875), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedules for salaries paid from other than budget funds in the Municipal Civil Service Commission for the year 1911, to be effective as of August 1, 1911, as follows:

Municipal Civil Service Commission.

Administration—

Salaries, Regular Employees to be paid from Special Revenue Bonds:

Investigators, 2, at $1,500 each, per annum	$1,250 00
Clerk, 1, at $300 per annum	125 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting an issue of $5,000 special revenue bonds (subdivision 8, section 188 of the Charter), to be used by the President of the Borough of Richmond for the purpose of paying wages of engineering force and purchasing filing cases and supplies, and meeting other contingent expenses in connection with work of locating, recording and mapping subsurface structures in the Borough of Richmond during 1911, together with a report of the Comptroller, to whom, on July 6, 1911, this application was referred, recommending approval of said request and also a schedule for the fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of five thousand dollars ($5,000), the proceeds whereof to be used by the President of the Borough of Richmond for the purpose of paying wages of engineering force and purchasing filing cases and supplies and meeting other contingent expenses in connection with work of locating, recording and mapping subsurface structures in the Borough of Richmond during 1911.

Adopted by the Board of Aldermen June 27, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 5, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On June 27, 1911, the Board of Aldermen adopted a resolution requesting $5,000 in special revenue bonds, the proceeds to be used by the President of the Borough of Richmond for the purpose of paying wages of engineering force and purchasing filing cases and supplies and meeting other contingent expenses in connection with the work of locating, recording and mapping subsurface structures in the Borough of Rihmond during 1911. In connection therewith I report as follows:

The establishment of a record of the subsurface structures in other boroughs has proven of great value. Such a record furnishes information for making connections for water, gas or electric service as well as for sewer connections and the issuance of permits for openings. In the case of street improvements the engineers are in a position to know exactly what conditions are liable to present themselves in any given area, so that more accurate preliminary estimates may be made and more accurate data obtained for estimating on contracts.

The plan proposed by the President practically combines the features of the plants established in the Boroughs of Brooklyn and The Bronx. It is proposed to set up the information from the following data:

(1) During Construction of New Sewers—Field parties on sewer construction work to record the location, depth and description of all subsurface structures encountered, and report to the Bureau in memoranda form from week to week.

(2) From Street Openings for Connections to Mains and Repairs—The Superintendent of Highways will furnish the Bureau with a duplicate of the order made out to inspectors on backfilling to enable the Bureau to record the openings made. The Inspector of backfilling to record the distance from the curb and the depth of any main or conduit intercepted by the opening made and transmit the information for record purposes.

The Superintendent of Sewers will instruct the Inspectors on sewer connection to collect similar data and transmit the same for record.

A party of two engineers will follow up the openings and locate the same from street intersections and make locations in such cases, where a comprehensible record is not prepared by the Inspector. Surface features as shown by the topographical survey will also be noted to supplement the data.

(3) Location of New Water Mains—The data is obtainable from the Department of Water Supply, Gas and Electricity which has an accurate record of the mains, plotted on a large scale map.

(4) Telephone Ducts—The telephone company has complete maps showing the location of the lines in the Borough, from which a blue print copy can be obtained for the purpose of relocating the lines on the City plant.

The President estimates that the annual cost of preparing the record will be about $10,000, as follows:

1 Draftsman	$1,800 00
1 Draftsman	1,500 00
1/2 Draftsman, at $1,650	825 00
1 Transitman	1,500 00
1 Laborer	900 00
1/12 party, at $7,650	840 00
1/6 party, at $6,350	1,060 00
1/6 supervision, at $2,700	450 00
1/10 drafting, at $2,000	200 00
	$9,075 00
Filing cases and supplies	455 00
	$9,530 00

The work is such that it will not be necessary to add to the present force, beyond the employment of a Laborer, at $900, and a Draftsman, at $1,500. The remaining employees are assigned to the Bureau of Engineering-Construction, and a part of their time is to be charged against the revenue bond account.

I recommend the adoption of the attached resolutions approving the request and a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

Resolved, That the resolution adopted by the Board of Aldermen on June 27, 1911, and approved by the Mayor July 5, 1911, requesting an issue of special revenue bonds in the sum of five thousand dollars ($5,000), the proceeds whereof to be used by the President of the Borough of Richmond for the purpose of paying wages of engineering force and purchasing filing cases and supplies and meeting other contingent expenses in connection with work of locating, recording and mapping subsurface structures in the Borough of Richmond during 1911, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and for the purpose of providing means therefor, the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five thousand dollars ($5,000) redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules for the office of the President of the Borough of Richmond for the year 1911 as follows:

Preparation of Subsurface Construction Records:

Revenue Bond Force:

Salaries—

Draftsman, 1 at	$1,500 00
Wages:	
Laborer, 1 at	900 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen, requesting the issue of $4,100 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for salaries in connection with the establishment of an ambulance service for insane patients at Kings County Hospital, Department of Public Charities, from May 1 to December 31, 1911, together with a report of the Comptroller, to whom, on May 11, 1911, said application was referred, recommending an issue of $2,562.50 for these salaries from August 1911, and also recommending approval of a schedule for the fund:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revnue bonds to the amount of four thousand one hundred dollars ($4,100), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries in connection with the establishment of an ambulance service for insane patients at the Kings County Hospital.

Adopted by the Board of Aldermen April 18, 1911, three-fourths of all the members voting in favor thereof.

Received from his Honor the Mayor May 2, 1911, without his approval or disapproval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On April 18, 1911, the Board of Aldermen adopted a resolution requesting $4,100 in special revenue bonds, to be used by the Department of Public Charities for paying salaries in connection with the establishment of an ambulance service for insane patients at the Kings County Hospital. In connection therewith, I report as follows:

Chapter 557 of the Laws of 1910, empowers Judges or Magistrates in Brooklyn or Queens to commit to the Psychopathic Ward of the Kings County Hospital persons charged with minor offenses and suspected of being insane. To provide for the transportation of alleged insane persons, committed or otherwise, the Commissioner proposes to establish in the hospital a special ambulance service to be in charge of employees trained in the care of the insane, thereby obviating the use of police patrol wagons and policemen. The following force is estimated to be necessary for the service:

	Rate Per Annum.
1 Auto Engineman for ambulance	$1,200 00
2 Alienists, at $1,200 each	2,400 00
1 Stenographer and Typewriter	1,200 00
1 Supervising Nurse (male)	750 00
1 Trained Nurse (female)	600 00
	$6,150 00

The Kings County Hospital has a power ambulance available for the proposed service, but owing to insufficient help it is operated only a part of each day. The additional help will permit of its use at all times, and provide an Alienist and Nurse to accompany it when conveying patients to the Psychopathic Ward. The Stenographer and Typewriter is to keep the records of these patients.

On April 29, 1910, the Board of Estimate and Apportionment authorized the issue of $6,125 special revenue bonds for the establishment of a special ambulance service in Bellevue Hospital. Mr. Homer Folks, Secretary of the State Charities Aid Association, in a communication approving the present request, states that the results obtained at Bellevue Hospital justify the establishment of the special ambulance service at Kings County Hospital. He further states as follows:

"Since this service became available the number of patients coming to the hospital in an excitable state of mind has been very materially reduced, and this is entirely attributed to the fact that ambulances and Trained Nurses have been substituted for patrol wagons and police officers. These Trained Nurses, in addition to having a less disturbing effect upon the patient than policemen, have been able to secure considerable data bearing upon each case coming under their care and observation. This is of great value to the Alienist in the subsequent diagnosis of the case."

The $4,100 was to cover the cost from May 1, 1911. It is proposed to install the service on August 1, and the amount necessary from that date to December 31, 1911, will be $2,562.50.

I recommend the adoption of the attached resolutions granting the request to the extent of $2,562.50, and approving a schedule for the fund.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on April 18, 1911, requesting an issue of special revenue bonds in the sum of four thousand one hundred dollars ($4,100), the proceeds whereof to be used by the Department of Public Charities for the purpose of paying salaries in connection with the establishment of an ambulance service for insane patients at the Kings County Hospital, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of two thousand five hundred and sixty-two dollars and fifty cents ($2,562.50), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding two thousand five hundred and sixty-two dollars and fifty cents ($2,562.50), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

—

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for employees of the Department of Public Charities, paid from special revenue bonds for the year 1911, to take effect as of August 1, 1911, as follows:

Department of Public Charities.

Institutions, Brooklyn and Queens, Kings County Hospital, Special Revenue Bond Force—

Salaries:

Alienists, 2 at $1,200 each per annum.

Stenographer and Typewriter, 1 at $1,200 per annum.

Special Revenue Bond Force—

Wages, Regular Employees:

Automobile Engineman for ambulance, 1 at $1,200 per annum.

Supervising Nurse, 1 at $750 per annum.

Trained Nurse, 1 at $600 per annum.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following communication from the Department of Water Supply, Gas and Electricity relative to, and report of the Comptroller recommending, the additional issue of $5,000 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for Sunday, holiday and overtime work of employees of the Department of Water Supply, Gas and Electricity, assigned to the maintenance and construction force of the Engineering Bureau, Boroughs of Manhattan and The Bronx; also recommending approval of a schedule for the fund:

(On May 4, 1911, the Board adopted a resolution concurring, to the extent of $12,000, in the resolution of the Board of Aldermen, requesting an issue of $18,000 special revenue bonds for the above purpose.)

(The resolution of the Board of Aldermen requesting the issue of $18,000, as above set forth, report of the Comptroller, and resolution of the Board of Estimate and Apportionment authorizing the issue of $12,000 mentioned herein, are printed in the Financial Minutes of May 4, 1911, at pages 1770-1773 of the pamphlet.)

(On July 13, 1911, the communication from the Commissioner of Water Supply, Gas and Electricity, requesting the additional authorization of $6,000 to pay for extra work of Laborers not provided for in the Budget appropriations, was referred to the Comptroller.)

Department of Water Supply, Gas and Electricity, Commissioner's Office, 13 to 21 Park Row, City of New York, July 7, 1911.

Mr. Joseph Haag, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—The Board of Estimate and Apportionment authorized special revenue bonds to the amount of $12,000, for extra time of Assistant Foremen and Caulkers, on account of the request of the Board of Aldermen for $18,000 to pay for the extra time of employees of the Engineering Bureau.

In the same Division of the Department and on the same payrolls the Laborers are not sufficiently provided for in the Budget appropriations, and I therefore respectfully request that the Board of Estimate and Apportionment authorize the balance of the $18,000, the money to be used to pay for extra work of Laborers.

Yours truly, HENRY S. THOMPSON, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On March 14, 1911, the Board of Aldermen adopted a resolution requesting special revenue bonds to the amount of $18,000, the proceeds to be used by the Department of Water Supply, Gas and Electricity for the wages of employees assigned to the maintenance and construction force of the Engineering Bureau, Boroughs of Manhattan and The Bronx. On May 4, 1911, the Board of Estimate and Apportionment granted the request to the extent of $12,000 for the payment of Sunday, holiday and overtime work; and approved of a schedule for the fund as follows:

Assistant Foremen, at, per day (1,000 days)	$3 00
Caulkers, at, per day (2,250 days)	4 00

No allowance was made at that time for the temporary employment of Laborers, as the Commissioner's representative stated that no additional appropriation for that purpose would be required.

It now appears that this statement was made through a misunderstanding, and on July 7, 1911, the Commissioner requested that the balance of the $18,000 be authorized to provide for Sunday, holiday and overtime work of Laborers.

The additional amount needed for Laborers, at $2.50 a day, is estimated by the Engineer in charge of the maintenance and construction work in Manhattan and The Bronx as follows:

	Days.	Amount.
Sunday, holiday and emergency work paid for in 1910........	9,118	$22,795 00
Allowance for Sunday, holiday and emergency work in 1911 Budget schedules	7,200	18,000 00
Estimated deficit	1,918	$4,795 00

It is stated that the Budget allowance for temporary employment of Laborers was exhausted on April 26, 1911.

An additional allowance of $5,000 would appear to be sufficient for all needs.

I recommend the adoption of the attached resolutions granting the request to the extent of $5,000 and providing for the necessary schedule modification.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on March 14, 1911, requesting an issue of special revenue bonds in the sum of eighteen thousand dollars ($18,000), the proceeds whereof to be used by the Department of Water Supply, Gas and Electricity in the payment of wages of employees assigned to the maintenance and construction force of the Engineering Bureau, Boroughs of Manhattan and The Bronx, which resolution was approved of and concurred in on May 4, 1911, by the Board of Estimate and Apportionment to the extent of twelve thousand dollars ($12,000) for Sunday, holiday and overtime work, be and the same is hereby approved of and concurred in to the additional amount of five thousand dollars ($5,000), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five thousand dollars ($5,000), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of schedule, as revised, for employees of the Department of Water Supply, Gas and Electricity paid from special revenue bonds for the year 1911, as follows:

Department of Water Supply, Gas and Electricity.

Water Supply, Boroughs of Manhattan and The Bronx, Distribution, Maintenance of Croton and Bronx Systems—

Wages, Temporary Employees, Special Revenue Bond Force, for Sunday, Holiday and Overtime Work:

Assistant Foremen, at $3 per day (1,000 days).

Caulkers, at $4 per day (2,250 days).

Laborers, at $2.50 per day (2,000 days).

Which was adopted by the following vote.

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary presented the following resolution of the Board of Aldermen requesting an issue of special revenue bonds (subdivision 8, section 188 of the Charter) in the sum of $100,000 for the maintenance of bridges as follows:

$35,000 for the New York and Brooklyn Bridge for 1911, $65,000 for the Williamsburg Bridge for 1911:

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of one hundred thousand dollars ($100,000), the proceeds whereof to be used by the Department of Bridges for the purpose of providing means for maintenance of bridges as follows: $35,000 to be applied to the expenditure of the New York and Brooklyn Bridge for 1911; $65,000 to be applied to the expenditure of the Williamsburg Bridge for 1911.

Adopted by the Board of Aldermen July 25, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 26, 1911. P. J. SCULLY, Clerk.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen July 25, 1911, and approved by the Mayor July 26, 1911, requesting an issue of special revenue bonds of The City of New York in the sum of one hundred thousand dollars ($100,000), the proceeds whereof to be used by the Department of Bridges for the maintenance of bridges, as follows: For the New York and Brooklyn Bridge for 1911, $35,000; for the Williamsburg Bridge for 1911, $65,000; be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment, and the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding one hundred thousand dollars ($100,000), redeemable from the tax levy of the year succeeding the year of their issue, the proceeds whereof to be applied to the purposes aforesaid.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Secretary notified the Board that the plans, form of contract and specifications for steel file cases and furnishings in the office of the County Clerk of New York County, in the County Court House, submitted by the Commissioner of Records, New York County, had been returned to said Commissioner as requested by him under date of June 24, 1911, which request was referred to the Comptroller on June 29, 1911.

(On April 27, 1911, the plans, form of contract and specifications above mentioned were referred to the Comptroller.)

The following matters, not upon the Calendar for the day, were considered by unanimous consent:

The Comptroller presented the following communication from the Department of Public Charities requesting, and report recommending, the transfer of $97,531 within the appropriation made to said Department for the year 1911:

Department of Public Charities of The City of New York, Foot of East 26th Street, July 25, 1911.

To the Honorable, the Board of Estimate and Apportionment:

Gentlemen—In the Budget for 1911 there was granted to this Department an appropriation entitled:

"808b. Additional Allowance for General Supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied		$200,000 00"
From this account the following transfers have been made:		
On April 20, 1911, to General Supplies, Richmond	$34,200 00	
On July 17, 1911, to General Supplies, Manhattan and The Bronx	48,269 00	
On July 17, 1911, to General Supplies, Brooklyn and Queens	20,000 00	
		$102,469 00
Leaving a balance of		$97,531 00

In order to meet present and prospective deficiencies in various supply appropriations allowed to this Department for the current year, application is hereby respectfully made for the transfer of the above-mentioned balance of $97,531 to sundry accounts other than Salaries and Wages, as follows:

Manhattan and The Bronx.

747. Repairs and Replacements by Contract or Open Order:		
City Hospital—		
Repairs to Streker Memorial Laboratory	$1,500 00	
Repairs to plumbing	1,200 00	
Repairs to pumps	350 00	
Repairs to boilers	250 00	
Hot-water tank for laundry	800 00	
		$4,100 00
City Home—		
Ward L, painting	$870 00	
Roofing	6,500 00	
Repairs to smoke stacks	600 00	
Repairs to coal hoist, runway and yard	3,000 00	
		10,970 00
Metropolitan Hospital—		
Roofing	$3,300 00	
Concreting grounds around kitchen building	2,000 00	
Coal handling facilities for new boiler house	5,000 00	
Repairs to boilers	2,150 00	
		12,450 00
Randalls Island—		
Painting Infants' Hospital	$1,250 00	
Roofing	6,544 00	
		7,794 00
Steamboats and Docks—		
"Lowell," repairs	$6,000 00	
Electric light	3,000 00	
Addition and change, 70th street dock	1,500 00	
Extension and fence at 53d street dock	1,000 00	
Dock construction, 120th street	1,000 00	
Docks at Randalls Island	2,000 00	
New steam main, 26th street dock	1,000 00	
		15,500 00
Bakery Repairs—		
Rebuild arches over ovens and renew tiles		1,500 00
Total for No. 747		$52,314 00
748. Apparatus, Machinery, Vehicles, etc., including Care and Storage		$19,517 00
751. Forage, Boarding and Shoeing Horses		900 00

Brooklyn and Queens.

778. Materials for Repairs and Replacements by Departmental Labor	5,000 00
779. Repairs and Replacements by Contract or Open Order	13,000 00
780. Apparatus, Machinery, Vehicles, etc., including Care and Storage	2,000 00
781. Maintenance of Automobiles, including Equipment, Care and Storage	1,500 00
783. Forage, Boarding and Shoeing Horses	800 00
786. Contingencies	600 00

Richmond.

796. Apparatus, Machinery, Vehicles, etc., including Care and Storage	1,000 00
798. Forage, Shoeing and Boarding Horses	400 00

Miscellaneous.

804. Clothing for Insane Patients	500 00
Total	$97,531 00

A request for the transfer of the foregoing items was included in an application addressed to your honorable Board on June 10, but was held in abeyance for the reason, I am informed, that the contention was made that no part of the appropriation account entitled:

"808b. Additional Allowance for General Supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied, $200,000."

—could be used for any purpose except for "General Supplies," in the restricted sense of the term—such as foodstuffs, bedding, dry goods, drugs, crockery, etc.— and that it could not be transferred to any account where it would be used, no matter how urgent the demand, for repairs, replacements, apparatus, machinery, vehicles, contingencies, forage, clothing for insane patients, etc.

In connection with this matter it might be well to consider the Departmental estimates for General Supplies for 1911, and the amounts appropriated therefor by your honorable Board:

Budget Allowance for 1911.

745.	General Supplies, Manhattan and The Bronx	$925,000 00
777.	General Supplies, Brooklyn and Queens	300,000 00
793.	General Supplies, Richmond	40,000 00
808b.	Additional Allowance for General Supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied	200,000 00
	Total allowance for General Supplies	$1,465,000 00

Departmental Estimate for 1911.

745.	General Supplies, Manhattan and The Bronx	$1,024,754 14	
777.	General Supplies, Brooklyn and Queens	359,809 00	
793.	General Supplies, Richmond	68,047 68	
			$1,452,610 82
	Budget allowance for General Supplies in excess of Departmental estimate		$12,389 18

That this Department was allowed for General Supplies more than twelve thousand dollars in excess of its estimated requirements for that purpose seems to justify the conclusion that the additional allowance of $200,000 (808b) was intended to replenish, from time to time, sundry appropriation accounts other than Salaries and Wages, as they might become depleted; and it is on that assumption that this application is predicated. When it is known that the Departmental estimate for No. 747, Repairs and Replacements by Contract or Open Order, Manhattan and The Bronx, was $406,704.80, and that the Budget allowance therefor was only $75,000, or less than 19 per cent., it will be seen that this Department will be hopelessly crippled unless there is transferred to that account some of the superfluous money appropriated for "General Supplies."

The condition of some of our institutional buildings, boats, docks, concrete walks, boilers, coal handling apparatus, roofs, ovens, fences, etc., is such that repairs are imperative; and as this work can be done, as a rule, only under favorable weather conditions, it is important that it be commenced forthwith, so as to reach completion before the winter weather sets in.

I trust that in considering this request you will give to the term "General Supplies," in its generic sense, that broad and liberal interpretation which will enable us to use the balance of the fund known as 808b for the purposes stated in this application. A proper regard for the comfort and welfare of the thousands of unfortunate inmates in our several institutions impels me to make this appeal to you in their behalf.

Herewith will be found a resolution for adoption.

Respectfully yours, WM. J. McKENNA, Third Deputy Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 25, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 25, 1911, the Commissioner of Public Charities requested the transfer of $97,531 within the appropriations to the Department for the year 1911. In connection therewith I report as follows:

On June 10, 1911, the Commissioner requested the transfer of $165,800 from No. 808b, to fourteen other accounts. On July 17, 1911, the Board of Estimate and Apportionment approved the request to the extent of $68,269 to two general supplies accounts, Nos. 745 and 777. It is now proposed that the balance of $97,531 in No. 808b be transferred to the twelve other accounts to meet deficiencies and to meet estimated expenditures for the rest of the year, as follows:

Institutions, Manhattan and The Bronx.

747.	Repairs and Replacements by Contract or open Order—		
	City Hospital:		
	Repairs to Streker Memorial Laboratory	$1,500 00	
	Repairs to plumbing	1,200 00	
	Repairs to pumps	350 00	
	Repairs to boilers	250 00	
	Hot water tank for laundry	800 00	$4,100 00
	City Home:		
	Ward L, painting	$870 00	
	Roofing	6,500 00	
	Repairs to smoke stacks	600 00	
	Repairs to coal hoist, runway and yard	3,000 00	10,970 00
	Metropolitan Hospital:		
	Roofing	$3,300 00	
	Concreting grounds around kitchen building	2,000 00	
	Coal handling facilities for new boiler house	5,000 00	
	Repairs to boilers	2,150 00	12,450 00
	Randalls Island:		
	Painting Infants' Hospital	$1,250 00	
	Roofing	6,544 00	7,794 00
	Steamboats and Docks:		
	Repairs to Steamboat "Lowell"	$6,000 00	
	Electric light	3,000 00	
	Seventieth street dock, addition and change	1,500 00	
	Extension and fence at 53d street dock	1,000 00	
	Dock construction, 120th street	1,000 00	
	Docks at Randalls Island	2,000 00	
	New steam main, 26th street dock	1,000 00	15,500 00
	Bakery repairs, rebuild arches over ovens and renew tiles		1,500 00
			$52,314 00
748.	Apparatus, machinery, vehicles, etc., including care and storage		19,517 00
751.	Forage, shoeing and boarding horses		900 00
	Brooklyn and Queens:		
778.	Materials for repairs and replacements by Departmental Labor		5,000 00
779.	Repairs and replacements by contract or open order		13,000 00
780.	Apparatus, machinery, vehicles, etc., including care and storage		2,000 00
781.	Maintenance of automobiles, including equipment, care and storage		1,500 00
783.	Forage, shoeing and boarding horses		800 00
786.	Contingencies		600 00
	Richmond:		
796.	Apparatus, machinery, vehicles, etc., including care and storage		1,000 00
798.	Forage, shoeing and boarding horses		400 00
	Miscellaneous:		
804.	Clothing for insane patients		500 00
			$97,531 00

In the Budget for 1911 was included an appropriation (No. 808b) of $200,000 as an "additional allowance for general supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied." On April 20, 1911, the sum of $34,200 was transferred from the account to No. 793, General Supplies, Richmond, leaving a balance of $165,800.

I am informed that the President of the Borough of Manhattan, Chairman of the Committee on Charities, is of opinion that the Board of Estimate and Apportionment may, in its discretion, transfer funds from No. 808b to other purposes than the purchase of general supplies.

The attached resolution, if adopted, will grant the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfers of funds appropriated to the Department of Public Charities for the year 1911, as follows:

Department of Public Charities.

From

Miscellaneous:

808b.	Additional allowance for general supplies, subject to the approval of the Board of Estimate and Apportionment as to the purposes to which it is to be applied	$97,531 00

To

747.	Repairs and replacements by contract or open order	$52,314 00
748.	Apparatus, machinery, vehicles, etc., including care and storage	19,517 00
751.	Forage, shoeing and boarding horses	900 00
778.	Materials for repairs and replacements by Departmental Labor	5,000 00
779.	Repairs and replacements by contract or open order	13,000 00
780.	Apparatus, machinery, vehicles, etc., including care and storage	2,000 00
781.	Maintenance of automobiles, including equipment, care and storage	1,500 00
783.	Forage, shoeing and boarding horses	800 00
786.	Contingencies	600 00
796.	Apparatus, machinery, vehicles, etc., including care and storage	1,000 00
798.	Forage, shoeing and boarding horses	$400 00
804.	Clothing for insane patients	500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller presented the following resolution of the Board of Aldermen requesting, and report recommending approval, of the request of the Board of Aldermen for an issue of $600 special revenue bonds (subdivision 8, section 188 of the Charter) for the salary of an Automobile Engineman in the Bureau of Licenses, Mayor's office, for the balance of the year 1911, to the extent of $500 to provide for said salary from August 1 to December 31, 1911; also recommending approval of a schedule for the fund:

(On July 20, 1911, the above resolution of the Board of Aldermen was referred to the Comptroller.)

In the Board of Aldermen.

Resolved, That, in pursuance of the provisions of subdivision 8 of section 188 of the Greater New York Charter, the Board of Estimate and Apportionment be and it is hereby requested to authorize the Comptroller to issue special revenue bonds to the amount of six hundred dollars ($600), the proceeds whereof to be used by the Chief of the Bureau of Licenses for the purpose of paying the salary of one Automobile Engineman for the balance of the year 1911, at the rate of one thousand two hundred dollars a year.

Adopted by the Board of Aldermen July 11, 1911, three-fourths of all the members voting in favor thereof.

Approved by the Mayor July 17, 1911. P. J. SCULLY, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, July 26, 1911.

To the Board of Estimate and Apportionment:

Gentlemen—On July 11, 1911, the Board of Aldermen adopted a resolution requesting $600 in special revenue bonds, to be used by the Chief of the Bureau of Licenses, the Mayoralty, to pay the salary of an Automobile Engineman, for the balance of the year 1911, at the rate of $1,200 per annum. In connection therewith I report as follows:

The grade of the new position of Automobile Engineman, Bureau of Licenses, the Mayoralty, at $1,200 per annum, was approved by the Board of Estimate and Apportionment on July 13, 1911. The resolution establishing the grade was adopted by the

Board of Aldermen on July 25. The sum of $500 and not $600 will be required to pay the salary of the incumbent of the position from August 1 to December 31.

I recommend that the request be approved by the adoption of the attached resolution. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Aldermen on July 11, 1911, and approved by the Mayor July 17, 1911, requesting an issue of special revenue bonds in the sum of six hundred dollars ($600), the proceeds whereof to be used by the Chief of the Bureau of Licenses, the Mayoralty, for the purpose of paying the salary of one Automobile Engineman, for the balance of the year 1911, at the rate of one thousand two hundred dollars a year, be and the same is hereby approved of and concurred in by the Board of Estimate and Apportionment to the extent of five hundred dollars ($500), and for the purpose of providing means therefor the Comptroller be and is hereby authorized, pursuant to the provisions of subdivision 8 of section 188 of the Greater New York Charter, to issue special revenue bonds of The City of New York to an amount not exceeding five hundred dollars ($500), redeemable from the tax levy of the year succeeding the year of their issue.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule for the Bureau of Licenses, the Mayoralty, for the year 1911, as follows:

The Mayoralty, Bureau of Licenses.

Salary to be paid from Special Revenue Bonds—

Automobile Engineman	$1,200 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The President of the Borough of Manhattan presented the following resolution authorizing the Board of City Record to pay a bill of the M. B. Brown Printing Company for printing in connection with the report and resolutions submitted to the Board by the Special Committee on Transit Proposals:

Resolved, That the Board of Estimate and Apportionment authorizes and directs the Board of City Record to pay a bill of M. B. Brown Printing and Binding Company, dated June 22, 1911, in the amount of $1,538.35, this being the expense incurred by the Special Committee on Transit Proposals of this Board for printing in connection with the report and resolutions submitted under date of June 5, 1911, and subsequent dates.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

The Comptroller moved that when the Board adjourns it adjourn to meet Thursday, August 3, 1911, at 10.30 o'clock a. m.

Which motion was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the Acting President of the Board of Aldermen, the President of the Borough of Manhattan, the Acting Presidents of the Boroughs of Brooklyn and The Bronx, and the Presidents of the Boroughs of Queens and Richmond—16.

On motion of the Comptroller the Board adjourned to meet Thursday, August 3, 1911, at 10.30 o'clock a. m. JOSEPH HAAG, Secretary.

UNIVERSITY OF ILLINOIS-URBANA
352.1 N4814M C001 1911:1:3
Minutes of the Board of Estimate and App
3 0112 062057838